

AMR REVIEW ARTICLES BY RESEARCH AREA - 1985-2001

(This information is also available on our website at <http://www.asme.org/pubs/amr/index.htm>)

I. FOUNDATIONS AND BASIC METHODS

- Hidden (a)symmetries of elastic and plastic bifurcation.** GW Hunt. AMR 39(8) 1165-1186 (Aug 1986). Reprint No AMR010 \$10
- Boundary element methods in dynamic analysis.** DE Beskos. AMR 40(1) 1-23 (Jan 1987). Reprint No AMR015 \$10
- On some developments in direct methods of the calculus of variations.** HHE Leipholz. AMR 40(10) 1379-1392 (Oct 1987) Reprint No AMR024 \$8
- Approaches to the automatic generation and control of finite element meshes.** MS Shephard. AMR 41(4) 169-185 (Apr 1988) Reprint No AMR035 \$12.50
- Finite element methods in probabilistic structural analysis: A selective review.** H Benaroya and M Rehak. AMR 41(5) 201-213 (May 1988) Reprint No AMR037 \$11
- Continuum modeling for repetitive lattice structures.** AK Noor. AMR 41(7) 285-296 (Jul 1988) Reprint No AMR039 \$9.50
- Mechanics and finite elements of shells.** G Wempner. AMR 42(5) 129-142. (May 1989) Reprint No AMR055 \$11
- Engineering analysis via symbolic computation.** AI Beltzer. AMR 43(6) 119-127 (Jun 1990) Reprint No AMR071 \$9.50
- Simulation of stochastic processes by spectral representation.** M Shinozuka and G Deodatis. AMR 44(4) 191-204 (Apr 1991) Reprint No AMR094 \$16
- Bibliography of books and monographs on finite element technology.** AK Noor. AMR 44(6) 307-317 (Jun 1991) Reprint No AMR098 \$14
- Multiphase poroelastic finite element models for soft tissue structures.** B R Simon. AMR 45(6) 191-218 (Jun 1992) Reprint No AMR114 \$22
- Recent advances and applications of reduction methods.** Ahmed K Noor. AMR 47(5) 125-146 (May 1994) Reprint No AMR143 \$20.
- Regularization techniques applied to boundary element methods.** M Tanaka, V Sladek, and J Sladek. AMR 47(10), 457-499 (Oct 1994) Reprint No AMR153 \$30.
- Theory of representations for tensor functions: A unified invariant approach to constitutive equations.** Q-S Zheng. AMR 47(11), 545-587 (Nov 1994) Reprint No AMR155 \$30.
- R-functions in boundary value problems in mechanics.** VL Rvachev and TI Sheiko. AMR 48(4) 151-188 (Apr 1995) Reprint No AMR161 \$28.
- Material forces: Concepts and applications.** GA Maugin. AMR 48(5) 213-245 (May 1995) Reprint No AMR163 \$26.
- Mechanics of swelling.** Special Issue edited by TK Karalis. AMR 48(10) 611-732 (Oct 1995) Reprint No AMR173 \$68.
- Cosserat plasticity and plastic spin.** H Lippmann. AMR 48(11) Part 1, 753-762 (Nov 1995) Reprint No AMR175 \$14.
- Differential quadrature method in computational mechanics: A review.** CW Bert and M Malik. AMR 49(1), 1-28, (Jan 1996) Reprint No AMR182 \$22
- Simulation of multi-dimensional Gaussian stochastic fields by spectral representation.** M Shinozuka and G Deodatis. AMR 49(1), 29-53, (Jan 1996) Reprint No AMR183 \$22
- Computational models for sandwich panels and shells.** AK Noor, WS Burton, and CW Bert. AMR 49(3) 155-199 (Mar 1996) Reprint No AMR186 \$32.
- Natural mode method: A practicable and novel approach to the global analysis of laminated composite plates and shells.** J Argyris and L Tenek. AMR 49(7) 381-399 (July 1996) Reprint No AMR193 \$18.
- Main Polish historical and modern sources on applied mechanics.** JJ Telega and R Wojnar. AMR 49(8) 401-432 (August 1996) Reprint No AMR 194 \$24.
- Recent developments in modeling of liquid phase electroepitaxy: A continuum approach.** S Dost. AMR 49(12 Pt1) 477-495 (Dec 1996) Reprint No AMR199 \$18
- Applications of fractional calculus to dynamic problems of linear and nonlinear hereditary mechanics of solids.** YA Rossikhin and MV Shitikova. AMR 50(1) 15-67 (Jan 1997) Reprint No AMR202 \$42.
- Boundary element formulations in fracture mechanics.** MH Aliabadi. AMR 50(2) 83-96 (Feb 1997) Reprint No AMR204 \$16.
- Boundary element methods in dynamic analysis: Part II (1986-1996).** DE Beskos. AMR 50(3) 149-197 (Mar 1997) Reprint No AMR207 \$34.
- Recent advances in computational thermostructural analysis of composite plates and shells with strong nonlinearities.** J Argyris and L Tenek. AMR 50(5) 285-306 (May 1997) Reprint No AMR211 \$20.
- Adaptive finite element methods: A review.** L-y Li and P Bettess. AMR 50(10) 581-591 (Oct 1997) Reprint No AMR222 \$14.
- Scaling of structural failure.** ZP Bazant and E-P Chen. AMR 50(10) 593-627 (Oct 1997) Reprint No AMR223 \$26.

- Applied mechanics in science and engineering.** Y-H Pao. AMR 51(2) 141-153 (Feb 1998) Reprint No AMR234 \$16.
- Review of eigensolution procedures for linear dynamic finite element analysis.** AF Bertolini. AMR 51(2) 155-172 (Feb 1998) Reprint No AMR235 \$18.
- Neural computing in mechanics.** P Zeng. AMR 51(2) 172-197 (Feb 1998) Reprint No AMR236 \$22.
- Three versions of the finite element method based on concepts of either stochasticity, fuzziness, or anti-optimization.** I Elishakoff. AMR 51(3) 209-218 (Mar 1998) Reprint No AMR238 \$14.
- Finite element analysis of hyperelastic components.** DW Nicholson, NW Nelson, B Lin, and A Farinella. AMR 51(5) 303-320 (May 1998) Reprint No AMR242 \$18.
- Nonlinear waves in nonlocal media.** J Engelbrecht and M Braun. AMR 51(8) 475-488 (Aug 1998) Reprint No AMR251 \$16.
- A review of material frame-indifference in mechanics.** CG Speziale. AMR 51(8) 489-504 (Aug 1998) Reprint No AMR252 \$16.
- Real porous media: Local geometry and macroscopic properties.** PM Adler and J-F Thovert. AMR 51(9) 537-585 (Sept 1998) Reprint No AMR255 \$34.
- Finite element bibliography for biomechanics (1987-1997).** J Mackerle. AMR 51(10) 589-634 (Oct 1998) Reprint No AMR256 \$34.
- Symmetric Galerkin boundary element methods.** M Bonnet, G Maier, C Polizzotto. AMR 51(11) 669-704 (Nov 1998) Reprint No AMR259 \$26.
- Review of dual boundary element methods with emphasis on hypersingular integrals and divergent series.** JT Chen and H-K Hong. AMR 52(1) 17-33 (Jan 1999) Reprint No AMR265 \$18.
- Optimization of structures in unilateral contact.** D Hilding, A Klarbring, and A J Petersson. AMR 52(4) 139-160 (Apr 1999) Reprint No AMR270 \$20.
- Dynamic analysis of plates by boundary elements.** CP Providakis and DE Besko. AMR 52(7) 213-236 (July 1999) Reprint No AMR274 \$20.
- Microplane constitutive model and metal plasticity.** M Brocca and ZP Bazant. AMR 53(10) 265-281 (Oct 2000) Reprint AMR 295 \$20.
- New trends in asymptotic approaches: Summation and interpolation methods.** IV Andrianov and J Awrejcewica. AMR 54(1) 69-92 (Jan 2001) Reprint AMR302 \$20.
- Mathematical modelling of materials behavior under creep conditions.** J Betten. AMR 54(2) 107-132 (March 2001) Reprint AMR304 \$22.
- Developments, ideas, and evaluations based upon Reissner's Mixed Variational Theorem in the modeling of multilayered plates and shells.** E Carrera. AMR 54(4) 301-329 (July 2001) Reprint AMR310 \$24.

II. DYNAMICS AND VIBRATION

- Energy release protection for pressurized systems.** SJ Brown. Part I AMR 38(12) 1625-1651 (1985). Reprint No. AMR002 \$11; Part II AMR 39(2) 177-201 (1986). Reprint No. AMR004 \$11
- Experimental studies of longitudinal and flexural wave propagations: Annotated bibliography.** MM Al-Mousawi. AMR 39(6) 853-865 (Jun 1986). Reprint No. AMR008 \$8
- Inverse problems in vibration.** GML Gladwell. AMR 39(7) 1013-1018 (Jul 1986). Reprint No AMR009 \$6
- Flow-induced instabilities of cylindrical structures.** MP Paidoussis. AMR 40(2) 163-175 (Feb 1987) Reprint No AMR016 \$8
- Structural dynamics with parameter uncertainties.** RA Ibrahim. AMR 40(3) 309-328 (Mar 1987) Reprint No AMR017 \$9
- Stable response of nonclassically damped mechanical systems.** DW Nicholson. AMR 40(6) 733-740 (Jun 1987) Reprint No AMR020 \$6
- Plate vibration research in Japan.** G Yamada and T Irie. AMR 40(7) 879-892 (Jul 1987) Reprint No AMR021 \$8.
- Instability of dynamically loaded structures.** GJ Simitses. AMR 40(10) 1403-1408 (Oct 1987) Reprint No AMR026 \$6
- Nonlinear vibration analysis of plates: A review and survey of current developments.** M Sathyamoorthy. AMR 40(11) 1553-1561 (Nov 1987) Reprint No AMR027 \$7
- Stochastic averaging methods in random vibration.** WQ Zhu. AMR 41(5) 189-199 (5/1988) Reprint No AMR036 \$9.50
- Dusty shock waves.** O Igra and G Ben-Dor. AMR 41(11) 379-436 (Nov 1988) Reprint No AMR044 \$27.50
- Chaotic dynamics and the Newtonian legacy.** JMT Thompson. AMR 42(1) 15-25 (Jan 1989) Reprint No AMR048 \$9.50
- Methods of random vibration for inelastic structures.** YK Wen. AMR 42(2) 39-52 (Feb 1989) Reprint No AMR050 \$11

- Elastic and acoustic resonance wave scattering. GC Gaunard. AMR 42(6) 143-192 (Jan 1989) Reprint No AMR056 \$24.50
- Causal theories of evolution and wave propagation in mathematical physics. M Kransy. AMR 42(11) Part 1, 305-322 (Nov 1989) Reprint No AMR062 \$12.50
- On the dynamics of cracked rotors: A literature survey. J Wauer. AMR 43(1) 13-18 (Jan 1990) Reprint No AMR067 \$8
- Modelling, control, and design of flexible structures. SS Rao, TS Pan, VB Venkayya. AMR 43(5) 99-117 (May 1990) Reprint No AMR072 \$12.50
- Acoustic resonance scattering by submerged elastic shells. GC Gaunard and MF Werby. AMR 43(8) 171-208 (Aug 1990) Reprint No AMR075 \$20
- Application of the singularity expansion method to elastic wave scattering. H Uberall, P Delsanto, J Alemar, E Rosario, and A Nagl. AMR 43(10) 235-250 (Oct 1990) Reprint No AMR074 \$16
- Multibody dynamics -- modeling and analysis methods. RL Huston. AMR 44(3) 109-117 (Mar 1991) Reprint No AMR089 \$14
- Traveling deformation waves: A tutorial review (translation). AI Dobroyubov. AMR 44(5) 215-254 (May 1991) Reprint No AMR 079 \$28
- Nonlinear dynamic response of membranes. CH Jenkins and JW Leonard. AMR 44(7) 319-328 (Jul 1991) Reprint No AMR097 \$14
- Random vibrations and fracture mechanics. Special issue edited by I Elishakoff. AMR 44(10) 399-461. Reprint No AMR100 \$46: (i) Linearization in analysis of nonlinear stochastic systems. L Socha and TT Soong. (ii) Nonlinear random vibration: Experimental results. RA Ibrahim. (iii) Application of FEM to linear elastic fracture mechanics. L Banks-Sills.
- Dynamics of periodic and near-periodic structures. Dong Li and H Benaroya. AMR 45(11) 447-460 (Nov 1992) Reprint No AMR121 \$16.
- Finite element analysis of aeroelasticity of plates and shells. MN Bismarck-Nasr. AMR 45(12) 461-482 (Dec 1992) Reprint No AMR122 \$20.
- Vibrations of planar curved beams, rings, and arches. P Chidamparam and AW Leissa. AMR 46(9) 467-483 (Sep 1993) Reprint No AMR132 \$20.
- Mechanics of contact impact. Edited by M Okrouhlik. AMR 47(2) 33-99 (Feb 1994) Reprint No AMR140 \$44.
- Piezoelectricity and its use in disturbance sensing and control of flexible structures: A survey. SS Rao and M Sunar. AMR 47(4) 113-123 (Apr 1994) Reprint No AMR142 \$14.
- Recent advances and applications of reduction methods. Ahmed K Noor. AMR 47(5) 125-146 (May 1994) Reprint No AMR143 \$20.
- Friction-induced vibration. Special issue edited by RA Ibrahim and E Rivin. AMR 47(7), 207-305 (Jul 1994) Reprint No AMR147 \$65.
- Review of three dimensional dynamic analyses of circular cylinders and cylindrical shells. KP Soldatos. AMR 47(10), 501-516 (Oct 1994) Reprint No AMR153 \$16.
- Impact on laminated composites: Recent advances. S Abrate. AMR 47(11), 517-544 (Nov 1994) Reprint No AMR154 \$22.
- Ray method for solving dynamic problems connected with propagation of wave surfaces of strong and weak discontinuities. YA Rossikhin and MV Shitikova. AMR 48(1), 1-39 (Jan 1995) Reprint No AMR158 \$30.
- Synchronization and chaos in interacting dynamical systems. II Blekhan, PS Landa, and MG Rosenblum. AMR 48(11) Part 1, 733-752 (Nov 1995) Reprint No AMR174 \$18.
- Removal, suppression, and control of chaos by nonlinear design. JF Lindner and WL Ditto. AMR 48(12) Part 1, 795-808, (Dec 1995) Reprint No AMR179 \$16.
- Random vibration of structures: A personal perspective. I Elishakoff. AMR 48(12) Part 1, 809-825, (Dec 1995) Reprint No AMR180 \$18.
- Simulation of multi-dimensional Gaussian stochastic fields by spectral representation. M Shinozuka and G Deodatis. AMR 49(1), 29-53, (Jan 1996) Reprint No AMR183 \$22
- Localization and effects of irregularities in structures. Special Issue edited by H Benaroya. AMR 49(2) 55-135 (Feb 1996) Reprint No AMR184 \$50.
- Nonlinear oscillations of a gas in a tube. MA Ilgamov, RG Zaripov, RG Galiullin, and VB Repin. AMR 49(3) 137-154 (Mar 1996) Reprint No AMR185 \$18.
- Computational models for sandwich panels and shells. AK Noor, WS Burton, and CW Bert. AMR 49(3) 155-199 (Mar 1996) Reprint No AMR186 \$32.
- Main Polish historical and modern sources on applied mechanics. JJ Telega and R Wojnar. AMR 49(8) 401-432 (August 1996) Reprint No AMR 194 \$24.
- Applications of fractional calculus to dynamic problems of linear and nonlinear hereditary mechanics of solids. YA Rossikhin and MV Shitikova. AMR 50(1) 15-67 (Jan 1997) Reprint No AMR202 \$42.
- Localized impact on sandwich structures with laminated facing. S Abrate. AMR 50(2) 69-82 (Feb 1997) Reprint No AMR203 \$16.
- Transient resonance scattering and target identification. GC Gaunard and HC Strifors. AMR 50(3) 131-148 (Mar 1997) Reprint No AMR206 \$18.
- Boundary element methods in dynamic analysis: Part II (1986-1996). DE Beskos. AMR 50(3) 149-197 (Mar 1997) Reprint No AMR207 \$34.
- Guided waves in plates and their use in materials characterization. DE Chimenti. AMR 50(5) 247-284 (May 1997) Reprint No AMR210 \$28.
- Designing against capsizing in beam seas: Recent advances and new insights. JMT Thompson. AMR 50(5) 307-325 (May 1997) Reprint No AMR212 \$20.
- Eigenmode analysis in unsteady aerodynamics: Reduced order models. EH Dowell, KC Hall, MC Romanowski. AMR 50(6) 371-386 (June 1997) Reprint No AMR215 \$18.
- Vibration of shallow shells: A review with bibliography. KM Liew, CW Lim, and S Kitipornchai. AMR 50(8) 431-444 (Aug 1997) Reprint No AMR218 \$16.
- Review of mechanics of shape alloy structures. V Birman. AMR 50(11, Pt 1) 629-645 (Nov 1997) Reprint No AMR224 \$18.
- Dynamic characteristics of magnetically-levitated vehicle systems. Y Cai and SS Chen. AMR 50(11, Pt 1) 647-670 (Nov 1997) Reprint No AMR225 \$20.
- Interactions of space bodies with atmospheres of planets. VP Stulov. AMR 50(11, Pt 1) 647-670 (Nov 1997) Reprint No AMR226 \$18.
- Applied mechanics in science and engineering. Y-H Pao. AMR 51(2) 141-153 (Feb 1998) Reprint No AMR234 \$16.
- Review of eigensolution procedures for linear dynamic finite element analysis. AF Bertolini. AMR 51(2) 155-172 (Feb 1998) Reprint No AMR235 \$18.
- Main Ukrainian historical and modern sources on mechanics: Focus on the SP Timoshenko Institute of Mechanics. AN Guz' and JJ Rushchitsky. AMR 51(3) 199-208 (Mar 1998) Reprint No AMR237 \$14.
- Three versions of the finite element method based on concepts of either stochasticity, fuzziness, or anti-optimization. I Elishakoff. AMR 51(3) 209-218 (Mar 1998) Reprint No AMR238 \$14.
- Monte Carlo treatment of random fields: A broad perspective. PD Spanos and BA Zeldin. AMR 51(3) 219-237 (Mar 1998) Reprint No AMR239 \$20.
- Panoramic overview of the principles and equations of motion of advanced engineering dynamics. JG Papastavridis. AMR 51(4) 239-265 (Apr 1998) Reprint No AMR240 \$22.
- A historical review on dry friction and stick-slip phenomena. B Feeny, A Guran, N Hinrichs, and K Popp. AMR 51(5) 321-341 (May 1998) Reprint No AMR244 \$20.
- Nonholonomic systems revisited within the framework of analytical mechanics. S Ostrovskaya and J Angeles. AMR 51(7) 415-433 (July 1998) Reprint No AMR248 \$20.
- Methods of isolation of modal resonances. N Veksler, J-L Izibicki, J-M Conoir, and P Rembert. AMR 51(7) 449-474 (July 1998) Reprint No AMR250 \$20.
- Nonlinear waves in nonlocal media. J Engelbrecht and M Braun. AMR 51(8) 475-488 (Aug 1998) Reprint No AMR251 \$16.
- Energy absorption capability and crashworthiness of composite material structures: A review. JJ Carruthers, AP Kettle, and AM Robinson. AMR 51(10) 635-649 (Oct 1998) Reprint No AMR257 \$16.
- Hyperbolic thermoelasticity: A review of recent literature. DS Chandrasekharaiah. AMR 51(12) 705-730 (Dec 1998) Reprint No AMR260 \$22.
- Interaction of waves in solid mixtures. J Rushchitsky. AMR 52(2) 35-74 (Feb 1999) Reprint No AMR266 \$28.
- Geometry and strength of general helicoidal shells. SN Krivoschapko. AMR 52(5) 161-175 (May 1999) Reprint No AMR271 \$16.
- Progress in structural dynamics with stochastic parameter variations: 1987-1998. CS Manohar and RA Ibrahim. AMR 52(5) 177-197 (May 1999) Reprint No AMR272 \$20.
- Dynamic analysis of plates by boundary elements. CP Providakis and DE Besko. AMR 52(7) 213-236 (July 1999) Reprint No AMR274 \$20.
- Mechanics of cylindrical shells with non-circular cross-section - A survey. KP Soldatos. AMR 52(8) 237-274 (Aug 1999) Reprint No AMR275 \$28.
- On the dynamics of elastic multibody systems. H Bremer. AMR 52(9) 275-303 (Sept 1999) Reprint No AMR276 \$24.
- Review of nonlinear panel flutter at supersonic and hypersonic speeds. Chu Mei, K Abdel-Motagaly, and R Chen. AMR 52(10) 321-332 (Oct 1999) Reprint No AMR 278 \$14.
- Possible limitations of probabilistic methods in engineering. I Elishakoff. AMR 53(2) 19-36 (Feb 2000) Reprint No AMR284 \$18.
- Application of weakly anisotropic models of a continuous medium for solving the problems of wave dynamics. YA Rossikhin and MV Shitikova. AMR 53(3) 37-85 (March 2000) Reprint No AMR285 \$34.
- Aeroacoustics of the vortex ring. VF Kopiev. AMR 53(7) 195-205 (July 2000) Reprint AMR291 \$14.
- Optimal protection from impact and shock: Theory and methods. DV Balandin, NN Bolotnik, and WD Pilkey. AMR 53(9) 237-264 (Sept 2000) Reprint AMR294 \$22.
- Nonholonomic mechanics. F Mei. AMR 53(11) 283-305 (Nov 2000) Reprint AMR296 \$20

- The role of friction in mechanical joints.** L Gaul and R Nitsche. AMR 54(2) 93-106 (March 2001) Reprint AMR303 \$16.
- Recent advances in liquid sloshing dynamics.** RA Ibrahim, VN Pilipchuk, and T Ikeda. AMR 54(2) 133-199 (March 2001) Reprint AMR305 \$42.
- Fluid transients and fluid-structure interaction in flexible liquid-filled piping.** DC Wiggert and AS Tijsseling. AMR 54(5) 455-481 (Sept 2001) Reprint AMR314 \$22.
- Review of inverse analysis for indirect measurement of impact force.** H Inoue, JJ Harrigan, and SR Reid. AMR 54(6) 503-524 (Nov 2001) Reprint AMR316 \$20.

III. AUTOMATIC CONTROL

- Manufacturing science and technology** (7 articles) PH Francis (ed). AMR 39(9) 1323-1372 (Sep 1986). Reprint No AMR011 \$17
- Applied mechanics problems in industry** (5 articles) RC Benson (ed). AMR 39(11) 1663-1705 (Nov 1986) Reprint No AMR013 \$15
- Composite laminate components for robotic and machine systems: Research issues in design.** BS Thompson. AMR 40(11) 1545-1552 (Nov 1987) Reprint No AMR026(a) \$6
- Inverse design and optimization in engineering** (6 articles) GS Dulikravich (ed). AMR 41(6) 215-280 (Jun 1988) Reprint No AMR038 \$30.50
- Optimal structural design under creep conditions.** M Zyczkowski. AMR 41(12) 453-461 (Dec 1988) Reprint No AMR046 \$9.50
- Optimal structural design in the USSR.** MI Reitman. AMR 42(2) 27-37 (Feb 1989) Reprint No AMR049 \$9.50
- Optimization in the design and control of robotic manipulators.** SS Rao and PK Bhatti. AMR 42(4) 117-127 (Apr 1989) Reprint No AMR054 \$11
- Predicting the autonomous behaviour of simple nonlinear feedback systems.** DP Atherton. AMR 43(10) 251-260 (Oct 1990) Reprint No AMR081 \$14
- Heat-transfer control: Principal focus on Japanese Research.** Toshio Aihara. AMR 45(4) 129-153 (Apr 1992) Reprint No AMR109 \$16
- Piezoelectricity and its use in disturbance sensing and control of flexible structures: A survey.** SS Rao and M Sunar. AMR 47(4) 113-123 (Apr 1994) Reprint No AMR142 \$14.
- Removal, suppression, and control of chaos by nonlinear design.** JF Lindner and WL Ditto. AMR 48(12) Part 1. 795-808, (Dec 1995) Reprint No AMR179 \$16.
- Optimization and experiments: A survey.** RT Haftka, EP Scott, and JR Cruz. AMR 51(7) 435-448 (July 1998) Reprint No AMR249 \$16.
- Recent advances in sensing and control of flexible structures via piezoelectric materials technology.** M Sunar and SS Rao. AMR 52(1) 1-16 (Jan 1999) Reprint No AMR264 \$16.
- Mechanics and computational models for laminated piezoelectric beams, plates, and shells.** DA Saravanan and PR Heyliger. AMR 52(10) 305-320 (Oct 1999) Reprint No AMR277 \$16.
- A survey of heat transfer in separated and reattached flows.** T Ota. AMR 53(8) 219-235 (Aug 2000) Reprint AMR293 \$18.

IV. MECHANICS OF SOLIDS

- Research trends in solid mechanics.** JR Rice, et al. AMR 38(10) 1247-1308 (Oct 1985). Avail. as Reprint No. I00198 \$10
- Reflections on the theory of elastic plates.** E Reissner. AMR 38(11) 1453-1464 (Nov 1985). Reprint No. AMR001 \$7
- Energy release protection for pressurized systems.** SJ Brown. Part I AMR 38(12) 1625-1651 (1985). Reprint No. AMR002 \$11; Part II AMR 39(2) 177-201 (1986). Reprint No. AMR004 \$11
- Thermoelasticity with second sound.** DS Chandrasekhariah. AMR 39(3) 355-376 (Mar 1986). Reprint No. AMR005 \$10
- Mechanics of distributed cracking.** ZP Bazant. AMR 39(5) 675-705 (May 1986). Reprint No. AMR007 \$12
- Hidden (a)symmetries of elastic and plastic bifurcation.** GW Hunt. AMR 39(8) 1165-1186 (Aug 1986). Reprint No AMR010 \$10
- Buckling and postbuckling of imperfect cylindrical shells.** GJ Simitses. AMR 39(10) 1517-1524 (Oct 1986) Reprint No AMR012 \$6
- Structural dynamics with parameter uncertainties.** RA Ibrahim. AMR 40(3) 309-328 (Mar 1987) Reprint No AMR017 \$9
- Review of laminated composite plate buckling.** AW Leissa. AMR 40(5) 575-591 (May 1987) Reprint No AMR019 \$9
- Plate vibration research in Japan.** G Yamada and T Irie. AMR 40(7) 879-892 (Jul 1987) Reprint No AMR021 \$8
- Mechanics of "bumps" in coal mines: A discussion of violent deformations in the sides of roadways in coal seams.** H Lippmann. AMR 40(8) 1033-1043 (Aug 1987) Reprint No AMR023 \$7
- Constitutive behavior and testing of structural adhesives.** E Sancaktar. AMR 40(10) 1393-1402 (Oct 1987) Reprint No AMR025 \$7

- Instability of dynamically loaded structures.** GJ Simitses. AMR 40(10) 1403-1408 (Oct 1987) Reprint No AMR026 \$6
- Nonlinear vibration analysis of plates: A review and survey of current developments.** M Sathiyamoorthy. AMR 40(11) 1553-1561 (Nov 1987) Reprint No AMR027 \$7
- Topics in finite elasticity: Hyperelasticity of rubber, elastomers, and biological tissues - with examples.** MF Beatty. AMR 40(12) 1699-1734 (Dec 1987) Reprint No AMR028 \$13
- Inclusion problems.** T Mura. AMR 41(1) 15-20 (Jan 1988) Reprint No AMR030 \$6
- Fracture mechanics in offshore industry** (6 articles) HC Rhee and MM Salama (eds). AMR 41(2) 21-109 (Feb 1988) Reprint No AMR032 \$27
- Conventional and unconventional plastic response and representation.** DC Drucker. AMR 41(4) 151-167 (Apr 1988) Reprint No AMR034 \$12.50
- Finite element methods in probabilistic structural analysis: A selective review.** H Benaroya and M Rehak. AMR 41(5) 201-213 (May 1988) Reprint No AMR037 \$11
- Initial value problems in viscoelasticity.** WJ Hrusa, JA Nohel, and M Renardy. AMR 41(10) 371-378 (Oct 1988) Reprint No AMR043 \$8
- Geometrically nonlinear behavior of composite plates: A review.** C-Y Chia. AMR 41(12) 439-451 (Dec 1988) ASME Bk No AMR045 \$9.50
- Optimal structural design under creep conditions.** M Zyczkowski. AMR 41(12) 453-461 (Dec 1988) Reprint No AMR046 \$9.50
- Assessment of shear deformation theories for multilayered composite plates.** AK Noor and WS Burton. AMR 42(1) 1-13 (Jan 1989) Reprint No AMR 047 \$11
- Optimal structural design in the USSR.** MI Reitman. AMR 42(2) 27-37 (Feb 1989) Reprint No AMR049 \$9.50
- Methods of random vibration for inelastic structures.** YK Wen. AMR 42(2) 39-52 (Feb 1989) Reprint No AMR050 \$11
- Ceramics for transportation engines - siren or solution.** PS Myers. AMR 42(3) 53-69 (Mar 1989) Reprint No AMR051 \$12.50
- A concept review of low-heat-rejection engines.** JE Smith and R Churchill. AMR 42(3) 71-90 (Mar 1989) Reprint No AMR052 \$12.50
- Recent studies on the dynamic plastic behavior of structures.** N Jones. AMR 42(4) 95-115 (Apr 1989) Reprint No AMR053 \$14
- Mechanics and finite elements of shells.** G Wempner. AMR 42(5) 129-142. (May 1989) Reprint No AMR055 \$11
- Micromechanical analysis of composites by the method of cells.** J Aboudi. AMR 42(7) 193-221 (Jul 89) Reprint No. AMR057 \$17
- Optimal topologies of structures.** U Kirsch. AMR 42(8) 223-239 (Aug 1989) Reprint No AMR058 \$12.50
- Recent developments concerning Saint-Venants principle.** CO Horgan. AMR 42(11) Part 1. 295-303 (Nov 1989) Reprint No AMR061 \$9.50
- On the dynamics of cracked rotors: A literature survey.** J Wauer. AMR 43(1) 13-18 (Jan 1990) Reprint No AMR067 \$8
- Theoretical study of crack-tip singularity fields in China.** KC Hwang. AMR 43(2) 19-33 (Feb 1990) Reprint No AMR068 \$11
- Assessment of computational models for multilayered composite shells.** AK Noor and WS Burton. AMR 43(4) 67-97 (Apr 1990) Reprint No AMR070 \$17
- Modelling, control, and design of flexible structures.** SS Rao, TS Pan, and VB Venkayya. AMR 43(5) Part 1 (Apr 1990) Reprint No AMR072 \$12.50
- Elastoviscoplastic models with relaxed configurations and internal state variables.** S Cleja-Tigoiu and E Soos. AMR 43(7) 131-151 (Jul 1990) Reprint No AMR073 \$14
- Acoustic resonance scattering by submerged elastic shells.** GC Gaunaurd and MF Werby. AMR 43(8) 171-208 (Aug 1990) Reprint No AMR075 \$20
- Bibliography of books and surveys on shells.** AK Noor. AMR 43(9) 223-234 (Sep 1990) Reprint No AMR078 \$14
- Addendum to: Bibliography of monographs and surveys on shells.** W Pietraszkiewicz. AMR 45(6) 249-250 (Jun 1992) Reprint No AMR115 (free with AMR078 \$14)
- Storage tanks under earthquake loading.** FG Rammerstorfer, K Scharf, and FD Fischer. AMR 43(11) 261-282 (Nov 1990) Reprint No AMR080 \$20
- Recent topics in constitutive modelling of cyclic plasticity and viscoplasticity.** N Ohno. AMR 43(11) 283-295 (Nov 1990) Reprint No AMR082 \$16
- Effect of loading sequence on the fatigue life of notched specimens made from steel and aluminum alloys.** O Buxbaum, H Klätschke, H Oppermann. AMR 44(1) 27-35 (Jan 1991) Reprint No AMR086 \$14
- Random heterogenous media: Microstructure and improved bounds on effective properties.** S Torquato. AMR 44(2) 37-76 (Feb 1991) Reprint No AMR087 \$28
- Influence of stress state on the failure behavior of cracked components made of steel.** H Clausmeyer, K Kussmaul, and E Roos. AMR 44(2) 77-92 (Feb 1991) Reprint No AMR090 \$16
- Impact on laminated composite materials.** S Abrate. AMR 44(4) 155-190 (Apr 1991) Reprint No AMR091 \$26
- Simulation of stochastic processes by spectral representation.** M Shinozuka

- and G Deodatis. AMR 44(4) 191-204 (Apr 1991) Reprint No AMR094 \$16
- Bibliography of books and monographs on finite element technology.** AK Noor. AMR 44(6) 307-317 (Jun 1991) Reprint No AMR098 \$14
- Nonlinear dynamic response of membranes.** CH Jenkins and JW Leonard. AMR 44(7) 319-328 (Jul 1991) Reprint No AMR097 \$14
- Random vibrations and fracture mechanics.** Special issue edited by I Elishakoff. AMR 44(10) 399-461, Reprint No AMR100 \$46; (i) **Linearization in analysis of nonlinear stochastic systems.** L Socha and TT Soong. (ii) **Nonlinear random vibration: Experimental results.** RA Ibrahim. (iii) **Application of FEM to linear elastic fracture mechanics.** L Banks-Sills.
- Biomimetics: Advancing man-made materials through guidance from nature.** AV Srinivasan, GK Haritos, and FL Hedberg. AMR 44(11) Part 1, 463-482 (Nov 1991) Reprint No AMR101 \$18
- Structural and dynamic behavior of pretwisted rods and beams.** A Rosen. AMR 44(12) Part 1, 483-516 (Dec 1991) Reprint No AMR102 \$26
- Material Instabilities (22nd Midwestern Mechanics Conference, Rolla MO, Oct 1991)** HM Zhib, TG Shawki, RC Batra (eds). AMR 45(3) Part 2 (Mar 1992) Reprint No AMR110 \$66 (members \$33)
- Romanian sources on applied mechanics.** Mihail E Popescu. AMR 45(6) 251-252 (Jun 1992) Reprint No AMR116 no charge.
- Micromechanical modelling of quasi-brittle materials behavior.** VC Li (ed). 10 articles. AMR 45(8) 261-398 (Aug 1992) Reprint No AMR118 \$60.
- Recent developments in the force method of structural analysis.** A Kaveh. AMR 45(9) 401-418 (Sep 1992) Reprint No AMR119 \$18.
- Mathematical modeling of transport phenomena during alloy solidification.** C Beckermann and R Viskanta. AMR 46(1) 1-28 (Jan 1993) Reprint No AMR124 \$22.
- US machining and grinding research in the 20th century.** R Komanduri, ME Merchant, MC Shaw. AMR 46(3) (Mar 1993) Reprint No AMR 126 \$42
- Nondestructive testing and structural condition monitoring of mechanical cables.** PAA Laura. AMR 46(4) 133-138 (Apr 1993) Reprint No AMR127 \$12.
- Aging of energy production and distribution systems: DOE Workshop, Rice University, Houston TX, October 11-13, 1992.** Edited by MM Carroll and PD Spanos. AMR 46(5) 139-263 (May 1993) Reprint No AMR128 \$78.
- Applied mechanics of a lunar base.** Edited by H Benaroya. AMR 46(6) 265-358 (Jun 1993) Reprint No AMR 129 \$65.
- Vibrations of planar curved beams, rings, and arches.** P Chidambaram and AW Leissa. AMR 46(9) 467-483 (Sep 1993) Reprint No AMR132 \$20.
- Thermal buckling of plates and shells.** ER Thornton. AMR 46(10) 485-506 (Oct 1993) Reprint No AMR 133 \$20.
- Bifurcation and stability in dissipative media (plasticity, friction, fracture).** Quoc Son Nguyen. AMR 47(1) Part 1, 1-31 (Jan 1994) Reprint No AMR138 \$26.
- Micromechanics of random media. MEET'N'93 - First Joint ASCE-ASME-SES Meeting Symposium.** Edited by M Ostojia-Starzewski and I Jasiuk. AMR 47(1) Part 2, 1-240 (Jan 1994) Reprint No AMR139 \$170.
- Recent advances and applications of reduction methods.** Ahmed K Noor. AMR 47(5) 125-146 (May 1994) Reprint No AMR143 \$20.
- Theories and computational models for composite laminates.** JN Reddy and DH Robbins Jr. AMR 47(6) Part 1, 147-169 (Jun 1994) Reprint No AMR144 \$20.
- Simulations of plastic instabilities in solid mechanics.** Yoshihiro Tomita. AMR 47(6) Part 1, 171-205 (Jun 1994) Reprint No AMR145 \$26.
- Internal variable formulations of problems in elastoplasticity: Constitutive and algorithmic aspects.** BD Reddy and JB Martin. AMR 47(9), 429-456 (Sept 1994) Reprint No AMR151 \$22.
- Impact on laminated composites: Recent advances.** S Abrate. AMR 47(11), 517-544 (Nov 1994) Reprint No AMR154 \$22.
- Layout optimization of structures.** GIN Rozvany, MP Bendsoe, and U Kirsch. AMR 48(2), 41-120 (Feb 1995) Reprint No AMR159 \$48.
- Material forces: Concepts and applications.** GA Maugin. AMR 48(5) 213-245 (May 1995) Reprint No AMR163 \$26.
- Anisotropic symmetries of linear elasticity.** SC Cowin and MM Mehrabadi. AMR 48(5) 247-285 (May 1995) Reprint No AMR164 \$28.
- Cavitation in nonlinearly elastic solids: A review.** CO Horgan and DA Polignone. AMR 48(8) 471-485 (Aug 1995) Reprint No AMR170 \$16.
- Mechanics of swelling.** Special Issue edited by TK Karalis. AMR 48(10) 611-732 (Oct 1995) Reprint No AMR173 \$68.
- Cosserat plasticity and plastic spin.** H Lippmann. AMR 48(11) Part 1, 753-762 (Nov 1995) Reprint No AMR175 \$14.
- Computational models for sandwich panels and shells.** AK Noor, WS Burton, and CW Bert. AMR 49(3) 155-199 (Mar 1996) Reprint No AMR186 \$32.
- Highlights in the historical development of the porous media theory: Toward a consistent macroscopic theory.** R de Boer. AMR 49(4) 201-262 (Apr 1996) Reprint No AMR187 \$40.
- Buckling of thin shells: Recent advances and trends.** JG Teng. AMR 49(4) 263-274 (Apr 1996) Reprint No AMR188 \$14.
- Contact mechanics of rough surfaces in tribology: Single asperity contact.** B Bhushan. AMR 49(5) 275-298 (May 1996) Reprint No AMR189 \$20.
- Transformation-induced plasticity (TRIP).** FD Fischer, Q-P Sun, and K Tanaka. AMR 49(6) 317-364 (June 1996) Reprint No AMR191 \$32.
- Natural mode method: A practicable and novel approach to the global analysis of laminated composite plates and shells.** J Argyris and L Tenek. AMR 49(7) 381-399 (July 1996) Reprint No AMR193 \$18.
- Main Polish historical and modern sources on applied mechanics.** JJ Telega and R Wojnar. AMR 49(8) 401-432 (Aug 1996) Reprint No AMR 194 \$24.
- Optimal structural design under creep conditions.** M Zyczkowski. AMR 49(9) 433-446 (Sept 1996) Reprint No AMR195 \$16.
- Bearing capacity of floating ice covers subjected to static and oscillatory loads.** AD Kerr. AMR 49(11) 463-475 (Nov 1996) Reprint No AMR198 \$16.
- Mechanical models of helical strands.** A Cardou and C Jolicoeur. AMR 50(1) 1-14 (Jan 1997) Reprint No AMR201 \$14.
- Applications of fractional calculus to dynamic problems of linear and nonlinear hereditary mechanics of solids.** YA Rossikhin and MV Shitkova. AMR 50(1) 15-67 (Jan 1997) Reprint No AMR202 \$42.
- Localized impact on sandwich structures with laminated facing.** S Abrate. AMR 50(2) 69-82 (Feb 1997) Reprint No AMR203 \$16.
- Boundary element formulations in fracture mechanics.** MH Aliabadi. AMR 50(2) 83-96 (Feb 1997) Reprint No AMR204 \$16.
- Guided waves in plates and their use in materials characterization.** DE Chimenti. AMR 50(5) 247-284 (May 1997) Reprint No AMR210 \$28.
- Recent advances in computational thermostructural analysis of composite plates and shells with strong nonlinearities.** J Argyris and L Tenek. AMR 50(5) 285-306 (May 1997) Reprint No AMR211 \$20.
- Wear of power plant components due to impact and sliding.** PL Ko. AMR 50(7) 387-411 (July 1997) Reprint No AMR216 \$22.
- Vibration of shallow shells: A review with bibliography.** KM Liew, CW Lim, and S Kitipornchai. AMR 50(8) 431-444 (Aug 1997) Reprint No AMR218 \$16.
- Drained granular material under cyclic loading with temperature-induced soil/structure interaction.** GL England, CM Tsang, T Dunstan, and RG Wan. AMR 50(10) 553-579 (Oct 1997) Reprint No AMR221 \$22.
- Scaling of structural failure.** ZP Bazant and E-P Chen. AMR 50(10) 593-627 (Oct 1997) Reprint No AMR223 \$26.
- Review of mechanics of shape alloy structures.** V Birman. AMR 50(11, Pt 1) 629-645 (Nov 1997) Reprint No AMR224 \$18.
- Dynamic characteristics of magnetically-levitated vehicle systems.** Y Cai and SS Chen. AMR 50(11, Pt 1) 647-670 (Nov 1997) Reprint No AMR225 \$20.
- Review of eigensolution procedures for linear dynamic finite element analysis.** AF Bertolini. AMR 51(2) 155-172 (Feb 1998) Reprint No AMR235 \$18.
- Neural computing in mechanics.** P Zeng. AMR 51(2) 172-197 (Feb 1998) Reprint No AMR236 \$22.
- Three versions of the finite element method based on concepts of either stochasticity, fuzziness, or anti-optimization.** I Elishakoff. AMR 51(3) 209-218 (Mar 1998) Reprint No AMR238 \$14.
- Monte Carlo treatment of random fields: A broad perspective.** PD Spanos and BA Zeldin. AMR 51(3) 219-237 (Mar 1998) Reprint No AMR239 \$20.
- Finite element analysis of hyperelastic components.** DW Nicholson, NW Nelson, B Lin, and A Farinella. AMR 51(5) 303-320 (May 1998) Reprint No AMR242 \$18.
- A historical review on dry friction and stick-slip phenomena.** B Feeny, A Guran, N Hinrichs, and K Popp. AMR 51(5) 321-341 (May 1998) Reprint No AMR244 \$20.
- Contact problems for elastic bodies with initial stresses: Focus on Ukrainian research.** AN Guz', SYu Babich, and VB Rudnitsky. AMR 51(5) 343-371 (May 1998) Reprint No AMR245 \$24.
- Damage analysis in fiber composite sheets and uncoated woven fabrics.** JN Rossettos and TA Godfrey. AMR 51(6) 373-385 (June 1998) Reprint No AMR246 \$16.
- Optimization and experiments: A survey.** RT Haftka, EP Scott, and JR Cruz. AMR 51(7) 435-448 (July 1998) Reprint No AMR249 \$16.
- Intelligent material systems: Application of functional materials.** J Tani, T Takaga, and J Qiu. AMR 51(8) 505-521 (Aug 1998) Reprint No AMR253 \$18.
- Real porous media: Local geometry and macroscopic properties.** PM Adler and J-F Thovert. AMR 51(9) 537-585 (Sept 1998) Reprint No AMR255 \$34.
- Energy absorption capability and crashworthiness of composite material structures: A review.** JJ Carruthers, AP Kettle, and AM Robinson. AMR 51(10) 635-649 (Oct 1998) Reprint No AMR257 \$16.
- Developments in the mechanics of reinforced soil: Empirical background and analytical approaches.** A Sawicki. AMR 51(11) 651-668 (Nov 1998) Reprint No AMR258 \$18.
- Symmetric Galerkin boundary element methods.** M Bonnet, G Maier, C

- Polizzotto. AMR 51(11) 669-704 (Nov 1998) Reprint No AMR259 \$26.
- Static analysis of shells with developable middle surfaces.** SN Krivoshapko. AMR 51(12) 731-746 (Dec 1998) Reprint No AMR261 \$26.
- Recent advances in sensing and control of flexible structures via piezoelectric materials technology.** M Sunar and SS Rao. AMR 52(1) 1-16 (Jan 1999) Reprint No AMR264 \$16.
- Residual stress measurement by successive extension of a slot: The crack compliance method.** MB Prime. AMR 52(2) 75-96 (Feb 1999) Reprint No AMR267 \$20.
- Optimization of structures in unilateral contact.** D Hilding, A Klarbring, and A J Petersson. AMR 52(4) 139-160 (Apr 1999) Reprint No AMR270 \$20.
- Geometry and strength of general helicoidal shells.** SN Krivoshapko. AMR 52(5) 161-175 (May 1999) Reprint No AMR271 \$16.
- Influence of loading rate on the interlaminar fracture properties of high performance composites - A review.** WJ Cantwell and M Blyton. AMR 52(6) 199-212 (June 1999) Reprint No AMR273 \$16.
- Mechanics of cylindrical shells with non-circular cross-section - A survey.** KP Soldatos. AMR 52(8) 237-274 (Aug 1999) Reprint No AMR275 \$28.
- Exact representations on artificial interfaces and applications in mechanics.** D Givoli. AMR 52(11) 333-349 (Nov 1999) Reprint No AMR 279 \$18.
- Composite materials and structures: Science, technology and applications - A compendium of books, review papers, and other sources of information.** AE Bogdanovich and RL Sierakowski. AMR 52(12, Pt 1) 351-366 (Dec 1999) Reprint No AMR280 \$16.
- Possible limitations of probabilistic methods in engineering.** I Elishakoff. AMR 53(2) 19-36 (Feb 2000) Reprint No AMR284 \$18.
- Application of weakly anisotropic models of a continuous medium for solving the problems of wave dynamics.** YA Rossikhin and MV Shitikova. AMR 53(3) 37-85 (March 2000) Reprint No AMR285 \$34.
- Higher-order theories of piezoelectric plates and application.** J Wang and J Yang. AMR 53(4) 87-99 (April 2000) Reprint No AMR 286 \$16.
- A survey of macro-microcrack interaction problems.** V Petrova, V Tamuzs, and N Romalis. AMR 53(5) 117-146 (May 2000) Reprint No AMR 288 \$24.
- Review of fracture and fatigue in ceramic matrix composites.** V Birman and LW Byrd. AMR 53(6) 147-174 (June 2000) Reprint No AMR289 \$22.
- Microplane constitutive model and metal plasticity.** M Brocca and ZP Bazant. AMR 53(10) 265-281 (Oct 2000) Reprint No AMR 295 \$20.
- Contemporary progress in porous media theory.** R de Boer. AMR 53(12) 323-370 (Dec 2000) Reprint No AMR298 \$34.
- Multiparticle effective field and related methods in micromechanics of composite materials.** VA Buryachenko. AMR 54(1) 1-47 (Jan 2001) Reprint No AMR300 \$32.
- Continuum mesomechanical finite element modeling in materials development: A state-of-the-art review.** LL Mishnaevsky Jr and S Schmauder. AMR 54(1) 49-67 (Jan 2001) Reprint No AMR301 \$20.
- Mathematical modelling of materials behavior under creep conditions.** J Betten. AMR 54(2) 107-132 (March 2001) Reprint No AMR304 \$22.
- Sandwich structures.** JR Vinson. AMR 54(3) 201-214 (May 2001) Reprint No AMR306 \$16.
- Fatigue damage modeling of fibre-reinforced composite materials: Review.** J Degrieck and W Van Paeppegem. AMR 54(4) 279-300 (July 2001) Reprint No AMR309 \$20.
- Developments, ideas, and evaluations based upon Reissner's Mixed Variational Theorem in the modeling of multilayered plates and shells.** E Carrera. AMR 54(4) 301-329 (July 2001) Reprint No AMR310 \$24.
- Topology optimization of continuum structures: A review.** HA Eschenauer and N Olhoff. AMR 54(4) 331-390 (July 2001) Reprint No AMR311 \$38.
- Coupled deformation diffusion effects in the mechanics of faulting and failure of geomaterials.** JW Rudnicki. AMR 54(6) 483-502 (Nov 2001) Reprint No AMR315 \$18.
- V. MECHANICS OF FLUIDS**
- Hydrodynamics of fluidization and heat transfer: Supercomputer modeling.** D Gidaspow. AMR 39(1) 1-23 (Jan 1986). Reprint No. AMR003 \$10
- Boundary layer interactions with compliant coatings.** M Gad-el-Hak. AMR 39(4) 511- 524 (Apr 1986). Reprint No. AMR006 \$8
- Flow-induced instabilities of cylindrical structures.** MP Paidoussis. AMR 40(2) 163-175 (Feb 1987) Reprint No AMR016 \$8
- Unsteady separation on lifting surfaces.** M Gad-el-Hak. AMR 40(4) 441-453 (Apr 1987) Reprint No AMR018 \$8
- Unsteady transonic aerodynamics and aeroelasticity.** EH Dowell. AMR 41(8) 299-319 (Aug 1988) Reprint No AMR040 \$14
- Industrial spray processes, spray drying and heat transfer.** WS Janna. AMR 41(10) 365-370 (Oct 1988) Reprint No AMR042 \$8
- Dusty shock waves.** O Igra and G Ben-Dor. AMR 41(11) 379-436 (Nov 1988) Reprint No AMR044 \$27.50
- Elastic and acoustic resonance wave scattering.** GC Gaunard. AMR 42(6) 143-192 (Jun 1989) Reprint No AMR056 \$24.50
- Flow control.** M Gad-el-Hak. AMR 42(10) 261-293 (Oct 1989) Reprint No AMR060 \$18.50
- Numerical algorithms for viscous flows with moving boundaries.** JM Floryan and H Rasmussen. AMR 42(12) 323-341 (Dec 1989) Reprint No AMR064 \$12.50
- Progress in gas-side fouling of heat-transfer surfaces.** WJ Marner. AMR 43(3) 35-66 (Mar 1990) Reprint No AMR069 \$17
- Some unanswered questions in fluid mechanics.** L Trefethen, R Panton. AMR 43(8) 153-170 (Aug 1990) Reprint No AMR076 \$12.50
- Lift force of delta wings.** M Lee and CM Ho. AMR 43(9) 209-221 (Sep 1990) Reprint No AMR077 \$11
- Rough-wall turbulent boundary layers.** MR Raupach, RA Antonia, and S Rajagopalan. AMR 44(1) 1-25 (Jan 1991) Reprint No AMR084 \$22
- On the structure of mixing layers and jets.** FO Thomas. AMR 44(3) 119-153 (Mar 1991) Reprint No AMR088 \$26
- Circular cylinder wake configurations: A flow visualization survey.** M Coutanceau and JR Defaye. AMR 44(6) 255-305 (Jun 1991) Reprint No AMR095 \$34
- Topology of flow separation on 3D bodies.** GT Chapman and LA Yates. AMR 44(7) 329-345 (Jul 1991) Reprint No AMR096 \$18
- Hydroacoustics of transitional boundary-layer flow.** GC Lauchle. AMR 44(12) Part 1, 517-531 (Dec 1991) Reprint No AMR103 \$16
- Dynamics and control of coherent structures in turbulent jets.** R R Mankbadi. AMR 45(6) 219-248 (Jun 1992) Reprint No AMR113 \$24
- Boundary integral equations in aerodynamics.** L Morino. AMR 46(8) 445-466 (Aug 1993) Reprint No AMR131 \$20.
- Reynolds number effects in wall-bounded turbulent flows.** M Gad-el-Hak and PR Bandyopadhyay. AMR 47(8), 307-365 (Aug 1994) Reprint No AMR148 \$38.
- Heat and fluid flow inside rotating channels.** W-J Yang, S Fann, and JH Kim. AMR 47(8), 367-396 (Aug 1994) Reprint No AMR149 \$22.
- Solidification of pure liquids and liquid mixtures inside ducts and over external bodies.** Shoichiro Fukusako and Masahiko Yamada. AMR 47(12), 589-621 (Dec 1994) Reprint No AMR156 \$26.
- Numerical simulation of coherent vortices in turbulence.** M Lesieur, P Comte, and O Métais. AMR 48(3) 121-149 (Mar 1995) Reprint No AMR160 \$24.
- Review of recent advances in the study of unsteady turbulent internal flows.** GJ Brereton and RR Mankbadi. AMR 48(4) 189-212 (Apr 1995) Reprint No AMR162 \$20.
- Bibliography on skin friction reduction with polymers and other boundary-layer additives.** RH Nadolink and WW Haigh. AMR 48(7) 351-460 (July 1995) Reprint No AMR168 \$62.
- Interfacial instabilities in stratified shear flows involving multiple viscous and viscoelastic fluids.** Kang Ping Chen. AMR 48(11) Part 1, 763-777, (Nov 1995) Reprint No AMR176 \$16.
- Nonlinear Boltzmann equation solutions and applications to fluid dynamics.** N Bellomo, P LeTallec, and B Perthame. AMR 48(12) Part 1, 777-794, (Dec 1995) Reprint No AMR178 \$20.
- Nonlinear oscillations of a gas in a tube.** MA Ilgamov, RG Zaripov, RG Galiullin, and VB Repin. AMR 49(3) 137-154 (Mar 1996) Reprint No AMR185 \$18.
- Turbulence in the ocean, atmosphere, galaxy, and universe.** CH Gibson. AMR 49(5) 299-315 (May 1996) Reprint No AMR190 \$20.
- Modern developments in flow control.** M Gad-el-Hak. AMR 49(7) 365-379 (July 1996) Reprint No AMR192 \$16
- Wall/vortex-ring interactions.** R Verzicco and P Orlandi. AMR 49(10, Pt 1) 447-461 (Oct 1996) Reprint No AMR196 \$16.
- Mechanical separation process and flow patterns of cyclone dust collectors.** A Ogawa. AMR 50(3) 97-130 (Mar 1997) Reprint No AMR205 \$26.
- Designing against capsizing in beam seas: Recent advances and new insights.** JMT Thompson. AMR 50(5) 307-325 (May 1997) Reprint No AMR212 \$20.
- Mathematical modeling of dusty-gas boundary layers.** AN Osipov. AMR 50(6) 357-370 (June 1997) Reprint No AMR214 \$16.
- Eigenmode analysis in unsteady aerodynamics: Reduced order models.** EH Dowell, KC Hall, MC Romanowski. AMR 50(6) 371-386 (June 1997) Reprint No AMR215 \$18.
- Scaling laws for fully developed turbulent flows in pipes.** GI Barenblatt, AJ Chorin, VM Prostokishin. AMR 50(7) 413-429 (July 1997) Reprint No AMR 217 \$18.
- Dynamic characteristics of magnetically-levitated vehicle systems.** Y Cai and SS Chen. AMR 50(11, Pt 1) 647-670 (Nov 1997) Reprint No AMR225 \$20.
- Zero-pressure-gradient turbulent boundary layer.** WK George and L Castillo. AMR 50(12, Pt 1) 689-729 (Dec 1997) Reprint No AMR228 \$30.
- Applied mechanics in science and engineering.** Y-H Pao. AMR 51(2) 141-153 (Feb 1998) Reprint No AMR234 \$16.
- Advances in the fundamental aspects of turbulence: Energy transfer, interacting scales, and self-preservation in isotropic decay.** Y Zhou and CG

- Speziale. AMR 51(4) 267-301 (Apr 1998) Reprint No AMR241 \$26.
- Video-grammetric methods in velocimetry.** Th Dracos and A Gruen. AMR 51(6) 387-413 (June 1998) Reprint No AMR247 \$22.
- A review of material frame-indifference in mechanics.** CG Speziale. AMR 51(8) 489-504 (Aug 1998) Reprint No AMR252 \$16.
- Asymptotic theory of global separation.** SI Chernyshenko. AMR 51(9) 523-536 (Sept 1998) Reprint No AMR254 \$16.
- Multidimensional modeling of impinging sprays on the wall in diesel engines.** J Senda and HG Fujimoto. AMR 52(4) 119-138 (Apr 1999) Reprint No AMR269 \$20.
- Exact representations on artificial interfaces and applications in mechanics.** D Givoli. AMR 52(11) 333-349 (Nov 1999) Reprint No AMR 279 \$18.
- Aeroacoustics of the vortex ring.** VF Kopiev. AMR 53(7) 195-205 (July 2000) Reprint AMR291 \$14.
- Smoke propagation in road tunnels.** F Chen. AMR 53(8) 205-218 (Aug 2000) Reprint AMR292 \$14.
- Analysis of viscous effects on cavitation.** E Amromin. AMR 53(11) 307-322 (Nov 2000) Reprint AMR297 \$16.
- Recent advances in liquid sloshing dynamics.** RA Ibrahim, VN Pilipchuk, and T Ikeda. AMR 54(2) 133-199 (March 2001) Reprint AMR305 \$42.
- Moving boundaries in micro-scale biofluid dynamics.** W Shyy, M Francois, HS Udaykumar, N N'dri, and R Tran-Son-Tay. AMR 54(5) 405-453 (Sept 2001) Reprint AMR313 \$34.
- Historical survey of some mathematical aspects of Newtonian fluid flows.** RKH Zeytounian. AMR 54(6) 525-562 (Nov 2001) Reprint AMR317 \$28.

VI. HEAT TRANSFER

- Hydrodynamics of fluidization and heat transfer: Supercomputer modeling.** D Gidaspo. AMR 39(1) 1-23 (Jan 1986). Reprint No. AMR003 \$10
- Thermoelasticity with second sound.** DS Chandrasekharah. AMR 39(3) 355-376 (3/1986). Reprint No. AMR005 \$10
- Thermal management of electronic equipment.** W Nakayama. AMR 39(12) 1847-68 (12/1986) Reprint No AMR014 \$10
- Thermophysical properties research on fluids at the technology frontier.** A Nagashima. AMR 41(3) 113-128 (Mar 1988) Reprint No AMR031 \$11
- Boiling heat transfer in liquid metals.** I Michiyoshi. AMR 41(3) 129-149 (Mar 1988) Reprint No AMR033 \$14
- Sixty-five years of extended surface technology (1922-1987).** AD Kraus. AMR 41(9) 321-364 (Sep 1988) Reprint No AMR041 \$21.50
- Industrial spray processes, spray drying and heat transfer.** WS Janna. AMR 41(10) 365-370 (Oct 1988) Reprint No AMR042 \$8
- Ceramics for transportation engines - siren or solution.** PS Myers. AMR 42(3) 53-69 (Mar 1989) Reprint No AMR051 \$12.50
- A concept review of low-heat-rejection engines.** JE Smith and R Churchill. AMR 42(3) 71-90 (Mar 1989) Reprint No AMR052 \$12.50
- Radiative transfer in dispersed media.** R Viskanta and MP Mengüç. AMR 42(9) 241-259 (Sep 1989) Reprint No AMR059 \$12.50
- Recent progress of Japanese research on condensation heat transfer.** I Tanasawa. AMR 43(1) 1-11 (Jan 1990) Reprint No AMR066 \$9.50
- Progress in gas-side fouling of heat-transfer surfaces.** WJ Marner. AMR 43(3) 35-66 (Mar 1990) Reprint No AMR069 \$17
- Heat transfer in superconducting films.** MI Flik. AMR 44(3) 93-108 (Mar 1991) Reprint No AMR092 \$16
- Review of thermal stresses.** Special collection edited by RB Hetnarski. AMR 44(8-9) 347-397 (Aug-Sep 1991) Reprint No AMR099 \$36: (i) Thermally induced flexure, buckling, and vibration of plates. TR Tauchert. (ii) Thermomechanical coupling in inelastic solids. DH Allen. (iii) Domain of influence results in generalized thermoelasticity. J Ignaczak. (iv) Thermal stresses in materials with temperature-dependent properties. N Noda.
- Heat-transfer control: Principal focus on Japanese Research.** Toshio Aihara. AMR 45(4) 129-153 (Apr 1992) Reprint No AMR109 \$16
- Optimum dimensions of extended surfaces operating in a convective environment.** A Aziz. AMR 45(5) 155-173 (May 1992) Reprint No AMR111 \$18
- Overview of micro heat pipe research and development.** G P Peterson. AMR 45(5) 175-189 (May 1992) Reprint No AMR112 \$16
- Fluorescence thermometry.** L J Dowell. AMR 45(7) 253-260 (July 1992) Reprint No AMR117 \$12.00
- Mathematical modeling of transport phenomena during alloy solidification.** C Beckermann and R Viskanta. AMR 46(1) 1-28 (Jan 1993) Reprint No AMR124 \$22.
- Perturbation techniques in phase change heat transfer.** A Aziz and VJ Lunardini. AMR 46(2) (Feb 1993) Reprint No AMR125 \$28.
- Solid layer thermal-conductivity measurement techniques.** KE Goodson and MI Flik. AMR 47(3) 101-112 (Mar 1994) Reprint No AMR141 \$14.
- Heat and fluid flow inside rotating channels.** W-J Yang, S Fann, and JH Kim. AMR 47(8), 367-396 (Aug 1994) Reprint No AMR149 \$22.

- Review of microscale heat transfer.** AB Duncan and GP Peterson. AMR 47(9), 397-428 (Sept 1994) Reprint No AMR 150 \$24.
- Some basic thermoelastic problems for nonhomogeneous structural materials.** Y Tanigawa. AMR 48(6) 287-300 (June 1995) Reprint No AMR165 \$16.
- Dynamic processes in structural thermo-viscoplasticity.** H Irschik and F Ziegler. AMR 48(6) 301-316 (June 1995) Reprint No AMR166 \$18.
- Transient heat transfer in extended surfaces.** A Aziz and AD Kraus. AMR 48(7) 317-350 (July 1995) Reprint No AMR167 \$26.
- Mechanics of swelling.** Special Issue edited by TK Karalis. AMR 48(10) 611-732 (Oct 1995) Reprint No AMR173 \$68.
- Recent developments in modeling of liquid phase electroepitaxy: A continuum approach.** S Dost. AMR 49(12 Pt1) 477-495 (Dec 1996) Reprint No AMR199 \$18
- Recent advances in computational thermostructural analysis of composite plates and shells with strong nonlinearities.** J Argyris and L Tenek. AMR 50(5) 285-306 (May 1997) Reprint No AMR211 \$20.
- Heat conduction in composites: Homogenization and macroscopic behavior.** P Furmanski. AMR 50(6) 327-356 (June 1997) Reprint No AMR213 \$24.
- Bayonet tube heat exchanger.** GSH Lock and H Minhas. AMR 50(8) 445-474 (Aug 1997) Reprint No AMR219 \$24.
- Special issue on thermal stresses.** Edited by RB Hetnarski. AMR 50(9) 475-551 (Sept 1997) Reprint No AMR220 \$48.
- Hyperbolic thermoelasticity: A review of recent literature.** DS Chandrasekharah. AMR 51(12) 705-730 (Dec 1998) Reprint No AMR260 \$22.
- A review of solution methods for determining effectiveness-NTU relationships for heat exchangers with complex flow arrangements.** DP Sekulic, RK Shah, and Pignotti. AMR 52(3) 97-117 (Mar 1999) Reprint No AMR268 \$20.
- On microtransport phenomena in minute droplets: A critical review.** O Aydin and W-J Wang. AMR 53(5) 101-116 (May 2000) Reprint AMR 287 \$16.
- Fluid flow and heat transfer at micro- and meso-scales with application to heat exchanger design.** SS Mehendale, AM Jacobi, and RK Shah. AMR 53(7) 175-193 (July 2000) Reprint AMR290 \$18.
- Smoke propagation in road tunnels.** F Chen. AMR 53(8) 205-218 (Aug 2000) Reprint AMR292 \$14.
- A survey of heat transfer in separated and reattached flows.** T Ota. AMR 53(8) 219-235 (Aug 2000) Reprint AMR293 \$18.
- Contemporary progress in porous media theory.** R de Boer. AMR 53(12) 323-370 (Dec 2000) Reprint AMR298 \$34.
- Combustion limits.** Y Ju, K Maruta, and T Niioka. AMR 54(3) 257-277 (May 2001) Reprint AMR307 \$20.
- Hydrodynamics of diffusive processes.** KN Shukla. AMR 54(5) 391-404 (Sept 2001) Reprint AMR312 \$16.

VII. EARTH SCIENCES

- Storage tanks under earthquake loading.** FG Rammerstorfer, K Scharf, FD Fischer. AMR 43(11) 261-282 (Nov 1990) Reprint No AMR080 \$20
- Random heterogenous media: Microstructure and improved bounds on effective properties.** S Torquato. AMR 44(2) 37-76 (Feb 1991) Reprint No AMR087 \$28
- Highlights in the historical development of the porous media theory: Toward a consistent macroscopic theory.** R de Boer. AMR 49(4) 201-262 (Apr 1996) Reprint No AMR187 \$40.
- Turbulence in the ocean, atmosphere, galaxy, and universe.** CH Gibson. AMR 49(5) 299-315 (May 1996) Reprint No AMR190 \$20.
- Real porous media: Local geometry and macroscopic properties.** PM Adler and J-F Thovert. AMR 51(9) 537-585 (Sept 1998) Reprint No AMR255 \$34.
- Coupled deformation diffusion effects in the mechanics of faulting and failure of geomaterials.** JW Rudnicki. AMR 54(6) 483-502 (Nov 2001) Reprint AMR315 \$18.

VIII. ENERGY AND ENVIRONMENT

- Mechanics of "bumps" in coal mines: A discussion of violent deformations in the sides of roadways in coal seams.** H Lippmann. AMR 40(8) 1033-1043 (Aug 1987) Reprint No AMR023 \$7
- Ice mechanics (5 articles)** JS Chung (ed). AMR 40(9) 1191-1244 (Sep 1987) Reprint No AMR022 \$18
- Fracture mechanics in offshore industry (6 articles)** HC Rhee and MM Salama (eds). AMR 41(2) 21-109 (Feb 1988) Reprint No AMR032 \$27
- Aging of energy production and distribution systems: DOE Workshop, Rice University, Houston TX, October 11-13, 1992.** Edited by MM Carroll and PD Spanos. AMR 46(5) 139-263 (May 1993) Reprint No AMR128 \$78.
- Bearing capacity of floating ice covers subjected to static and oscillatory**

loads. AD Kerr. AMR 49(11) 463-475 (Nov 1996) Reprint No AMR198 \$16.
Asymptotic theories of large-scale motion, temperature, and moisture distribution in land-based polythermal ice sheets: A critical review and new developments. DR Baral, K Hutter, and R Greve. AMR 54(3) 215-256 (May 2001) Reprint AMR307 \$30.

IX. BIOENGINEERING

Topics in finite elasticity: Hyperelasticity of rubber, elastomers, and biological tissues - with examples. MF Beatty. AMR 40(12) 1699-1734 (Dec 1987) Reprint No AMR028 \$13
Review of knee models. MS Hefzy and ES Grood. AMR 41(1) 1-14 (Jan 1988) Reprint No AMR029 \$8
Biomimetics: Advancing man-made materials through guidance from nature. AV Srinivasan, GK Haritos, and FL Hedberg. AMR 44(11) Part 1, 463-482 (Nov 1991) Reprint No AMR101 \$18
Multiphase poroelastic finite element models for soft tissue structures. B R Simon. AMR 45(6) 191-218 (Jun 1992) Reprint No AMR114 \$22.
Simple models of human movement. R McN Alexander. AMR 48(8) 461-470 (Aug 1995) Reprint No AMR169 \$14.
Biomechanics of growth, remodeling, and morphogenesis. LA Taber. AMR 48(8) 487-545 (Aug 1995) Reprint No AMR171 \$38.
Finite element bibliography for biomechanics (1987-1997). J Mackerle. AMR 51(10) 589-634 (Oct 1998) Reprint No AMR256 \$34.
Survey of stress analyses of the femoral hip prosthesis. MG Joshi, MH Santare, and SG Advani. AMR 53(1) 1-18 (Jan 2000) Reprint No AMR283 \$18.
Moving boundaries in micro-scale biofluid dynamics. W Shyy, M Francois, HS Udaykumar, N N'dri, and R Tran-Son-Tay. AMR 54(5) 405-453 (Sept 2001) Reprint AMR313 \$34.

X. GENERAL AND MISCELLANEOUS

Index to Volume 41 (1988). Reprint No AMR061 \$80
Supplement to Vol 42: Mechanics Pan-America 1989 (Selected and extended papers from PACAM I, Rio, Jan 1989). AMR 42(11 Pt 2) (Nov 1989) Reprint No 800148 (soft, \$40), 800059 (hard, \$80)
Index to Volume 42 (1989). Reprint No AMR065 \$80
Supplement to Vol 43: Mechanics USA 1990 (Proc USNCAM-11, Tucson, May 1990). AMR 43(5 Pt 2) (May 1990) Reprint No 80013X \$88
Index to Volume 43 (1990). Reprint No AMR085 \$88
Supplement to Vol 44: Mechanics Pan-America 1991 (Selected and extended papers from PACAM II, Valparaiso, Chile, Jan 1991). DT Mook (ed). AMR 44(11) Part 2 (Nov 1991) Reprint No AMR106 \$88 (members \$44)
Index to Volume 44 (1991). Reprint No AMR108 \$88
Romanian sources on applied mechanics. Mihail E Popescu. AMR 45(6) 251-252 (Jun 1992) Reprint No AMR116 no charge.
Index to Volume 45 (1992). Reprint No AMR123 \$88
Supplement to Vol 46: Mechanics Pan-America 1993 (Selected and extended papers from PACAM III, São Paulo, Brazil, Jan 1993). MRM Crespo da Silva and CEN Mazzilli (eds). AMR 46(11 Pt 2) (Nov 1993) Reprint No AMR134 \$88
Index to Volume 46 (1993). Reprint No AMR136 \$88
Supplement to Vol 47: Mechanics USA 1994 (Proc USNCAM-12, Seattle,

June 1994). AS Kobayashi (ed). AMR 47(6 Pt 2) (Jun 1994) Reprint No AMR146 \$88
Index to Volume 47 (1994). AMR 47(12 Pt 2) (Dec 1994) Reprint No AMR157 \$96
Mechanics Pan-America 1995 (Selected and extended papers from PACAM IV, Buenos Aires, Argentina, Jan 1995). LA Godoy, SR Idelsohn, PAA Laura, and DT Mook (eds). AMR 48(11 Pt 2) (Nov 1995) Reprint No AMR177 \$96
Index to Volume 48 (1995). AMR 48(12 Pt 2) (Dec 1995) Reprint No AMR181 \$96
Main Polish historical and modern sources on applied mechanics. JJ Telega and R Wojnar. AMR 49(8) 401-432 (August 1996) Reprint No AMR 194 \$24.
UPDATE 1996. Edited by AW Leissa. AMR 49(10, Pt 2) S1-S202 (Oct 1996) Reprint No AMR197 \$99.
Index to Volume 49 (1996). AMR 48(12 Pt 2) (Dec 1996) Reprint No AMR200 \$96
Mechanics Pan-America 1997 (Selected and extended papers from PACAM V, San Juan, Puerto Rico, Jan 1997). LA Godoy, M Rysz, and LE Suarez (eds). AMR 50(11 Pt 2) S1-S244 (Nov 1997) Reprint No AMR227 \$99.
Index to Volume 50 (1997). AMR 50(12, Pt 2) (Dec 1997) Reprint No AMR231 \$96
Retrospectives - 1997. Includes: *Boundary layer transition: The early days*, by HW Liepmann (Feb 1997); *Generation of surface waves by wind*, by J Miles (July 1997); and *Research as a life style*, by G Batchelor (Aug 1997) Reprint No AMR232 \$18
Index to Volume 51 (1998). AMR 51(12, Pt 2) (Dec 1998) Reprint No AMR262 \$96.
Retrospectives - 1998. Includes: *An Editor looks back*, by S Juhasz (Jan 1998); *Science between the worlds: A retrospective*, by H Lippmann (April 1998); *Experiments and constitutive equations*, by SR Bodner (June 1998); and *The plate and shell vibration monographs*, by AW Leissa (Oct 1998) Reprint No AMR243 \$22
Index to Volume 52 (1999). AMR 52(12, Pt 2) (Dec 1999) Reprint No AMR281 \$96.
Retrospectives - 1999. Includes: *Dynamic instabilities in mechanics of structures*, by VV Bolotin (Jan 1999); *Stability as the fundamental problem of control systems*, by M Mansour (March 1999); *On the importance of shell buckling experiments*, by J Singer (June 1999); and *Bouncing from one collision to the next*, by W Goldsmith (August 1999) Reprint No AMR263 \$32.
Retrospectives - 2000. Includes: *1955-1980: A dynamic quarter century for applied mechanics*, by J Hult (Jan 2000); *A retrospective on dynamic plasticity and dynamic plastic instability*, by Ren Wang (Feb 2000); *Development of geophysical fluid dynamics: The influence of laboratory experiments*, by JS Turner (March 2000); *An experimental method for measuring stress intensity factor distributions in three-dimensional problems*, by CW Smith (April 2000); *Damping of viscoelastic layers*, by EE Ungar (June 2000); and *Adventures in applied mechanics*, by CW Bert (Oct 2000). Reprint No AMR282 \$32.
Retrospectives - 2001. Includes: *Photoelasticity, plasticity, and material behavior*, by DC Drucker (Jan 2001); *Conformal mapping, variational methods, and acoustic emission in mechanical cables*, by PAA Laura (Sept 2001); and *Early numerical computations in engineering*, by FI Niordson (Nov 2001). Reprint No AMR299 \$18.

AMR REVIEW ARTICLES IN CHRONOLOGICAL ORDER 1985-2001

(This information is also available on our website at <http://www.asme.org/pubs/amr/index.htm>)

- Research trends in solid mechanics.** JR Rice, et al. AMR 38(10) 1247-1308 (Oct 1985). Avail. as Reprint No. 100198 \$10
- Reflections on the theory of elastic plates.** E Reissner. AMR 38(11) 1453-1464 (Nov 1985). Reprint No. AMR001 \$7
- Energy release protection for pressurized systems.** SJ Brown. Part I AMR 38(12) 1625-1651 (1985). Reprint No. AMR002 \$11; Part II AMR 39(2) 177-201 (1986). Reprint No. AMR004 \$11
- Hydrodynamics of fluidization and heat transfer: Supercomputer modeling.** D Gidaspow. AMR 39(1) 1-23 (Jan 1986). Reprint No. AMR003 \$10
- Thermoelasticity with second sound.** DS Chandrasekhar. AMR 39(3) 355-376 (Mar 1986). Reprint No. AMR005 \$10
- Boundary layer interactions with compliant coatings.** M Gad-el-Hak. AMR 39(4) 511-524 (Apr 1986). Reprint No. AMR006 \$8
- Mechanics of distributed cracking.** ZP Bazant. AMR 39(5) 675-705 (May 1986). Reprint No. AMR007 \$12
- Experimental studies of longitudinal and flexural wave propagations: Annotated bibliography.** MM Al-Mousawi. AMR 39(6) 853-865 (Jun 1986). Reprint No. AMR008 \$8
- Inverse problems in vibration.** GML Gladwell. AMR 39(7) 1013-1018 (Jul 1986). Reprint No. AMR009 \$6
- Hidden (a)symmetries of elastic and plastic bifurcation.** GW Hunt. AMR 39(8) 1165-1186 (Aug 1986). Reprint No. AMR010 \$10
- Manufacturing science and technology.** 7 review articles by JR Dixon and CL Dym, Y Koren, PG Ranky, DK Allen and W Van Twines, JC Ammons and LF McGinnis, HW Stoll, BS Thompson and MV Gandhi; PH Francis (ed). AMR 39(9) 1323-1372 (Sep 1986). Reprint No. AMR011 \$17
- Buckling and postbuckling of imperfect cylindrical shells.** JG Simitses. AMR 39(10) 1517-1524 (Oct 1986). Reprint No. AMR012 \$6
- Applied mechanics problems in industry.** 5 articles by DB Bogy and FE Talke, HD Hibbitt, LJ Howell, J-C Roegiers, VK Stokes; RC Benson (ed). AMR 39(11) 1663-1705 (Nov 1986). Reprint No. AMR013 \$15
- Thermal management of electronic equipment.** W Nakayama. AMR 39(12) 1847-1868 (Dec 1986). Reprint No. AMR014 \$10
- Boundary element methods in dynamic analysis.** DE Beskos. AMR 40(1) 1-23 (Jan 1987). Reprint No. AMR015 \$10
- Flow-induced instabilities of cylindrical structures.** MP Paidoussis. AMR 40(2) 163-175 (Feb 1987). Reprint No. AMR016 \$8
- Structural dynamics with parameter uncertainties.** RA Ibrahim. AMR 40(3) 309-328 (Mar 1987). Reprint No. AMR017 \$9
- Unsteady separation on lifting surfaces.** M Gad-el-Hak. AMR 40(4) 441-453 (Apr 1987). Reprint No. AMR018 \$8
- Review of laminated composite plate buckling.** AW Leissa. AMR 40(5) 575-591 (May 1987). Reprint No. AMR019 \$9
- Stable response of nonclassically damped mechanical systems.** DW Nicholson. AMR 40(6) 733-740 (Jun 1987). Reprint No. AMR020 \$6
- Plate vibration research in Japan.** G Yamada and T Irie. AMR 40(7) 879-892 (Jul 1987). Reprint No. AMR021 \$8
- Mechanics of "bumps" in coal mines: A discussion of violent deformations in the sides of roadways in coal seams.** H Lippmann. AMR 40(8) 1033-1043 (Aug 1987). Reprint No. AMR023 \$7
- Ice mechanics (Special Issue of 5 articles)** JS Chung (ed). AMR 40(9) 1191-1244 (Sep 1987). Reprint No. AMR022 \$18
- On some developments in direct methods of the calculus of variations.** HHE Leipholz. AMR 40(10) 1379-1392 (Oct 1987). Reprint No. AMR024 \$8
- Constitutive behavior and testing of structural adhesives.** E Sancaktar. AMR 40(10) 1393-1402 (Oct 1987). Reprint No. AMR025 \$7
- Instability of dynamically loaded structures.** GJ Simitses. AMR 40(10) 1403-1408 (Oct 1987). Reprint No. AMR026 \$6
- Composite laminate components for robotic and machine systems: Research issues in design.** BS Thompson. AMR 40(11) 1545-1552 (Nov 1987). Reprint No. AMR026(a) \$6
- Nonlinear vibration analysis of plates: A review and survey of current developments.** M Sathyamoorthy. AMR 40(11) 1553-1561 (Nov 1987). Reprint No. AMR027 \$7
- Topics in finite elasticity: Hyperelasticity of rubber, elastomers, and biological tissues - with examples.** MF Beatty. AMR 40(12) 1699-1734 (Dec 1987). Reprint No. AMR028 \$13
- Review of knee models.** MS Hefzy and ES Grood. AMR 41(1) 1-14 (Jan 1988). Reprint No. AMR029 \$8
- Inclusion problems.** T Mura. AMR 41(1) 15-20 (Jan 1988). Reprint No. AMR030 \$6
- Fracture mechanics in offshore industry.** 6 articles by HC Rhee and MF Kanninen; S Dharmavasan and WD Dover; I Milne; F Kirkemo; G Demofonti, A Maresca, and G. Buzzichelli; S Machida, H Yajima, M Toyosada, Y Hagiwara, and K Kajimoto; HC Rhee and MM Salama (eds). AMR 41(2) 21-109 (Feb 1988). Reprint No. AMR032 \$27
- Thermophysical properties research on fluids at the technology frontier.** A Nagashima. AMR 41(3) 113-128 (Mar 1988). Reprint No. AMR031 \$11
- Boiling heat transfer in liquid metals.** I Michiyoshi. AMR 41(3) 129-149 (Mar 1988). Reprint No. AMR033 \$14
- Conventional and unconventional plastic response and representation.** DC Drucker. AMR 41(4) 151-167 (Apr 1988). Reprint No. AMR034 \$12.50
- Approaches to the automatic generation and control of finite element meshes.** MS Shephard. AMR 41(4) 169-185 (Apr 1988). Reprint No. AMR035 \$12.50
- Stochastic averaging methods in random vibration.** WQ Zhu. AMR 41(5) 189-199 (May 1988). Reprint No. AMR036 \$9.50
- Finite element methods in probabilistic structural analysis: A selective review.** H Benaroya and M Rehak. AMR 41(5) 201-213 (May 1988). Reprint No. AMR037 \$11
- Inverse design and optimization in engineering.** 6 articles by JD Stanitz, H Sobiechsky, A Markovsky, GN Vanderplaats, E Hensel, and GS Dulikravich (ed). AMR 41(6) 215-280 (Jun 1988). Reprint No. AMR038 \$30.50
- Continuum modeling for repetitive lattice structures.** AK Noor. AMR 41(7) 285-296 (Jul 1988). Reprint No. AMR039 \$9.50
- Unsteady transonic aerodynamics and aeroelasticity.** EH Dowell. AMR 41(8) 299-319 (Aug 1988). Reprint No. AMR040 \$14
- Sixty-five years of extended surface technology (1922-1987).** AD Kraus. AMR 41(9) 321-364 (Sep 1988). Reprint No. AMR041 \$21.50
- Industrial spray processes, spray drying and heat transfer.** WS Janna. AMR 41(10) 365-370 (Oct 1988). Reprint No. AMR042 \$8
- Initial value problems in viscoelasticity.** WJ Hrusa, JA Nohel, and M Renardy. AMR 41(10) 371-378 (Oct 1988). Reprint No. AMR043 \$8
- Dusty shock waves.** O Igra and G Ben-Dor. AMR 41(11) 379-436 (Nov 1988). Reprint No. AMR044 \$27.50
- Geometrically nonlinear behavior of composite plates: A review.** C-Y Chia. AMR 41(12) 439-451 (Dec 1988). Reprint No. AMR045 \$9.50
- Optimal structural design under creep conditions.** M Zyczkowski. AMR 41(12) 453-461 (Dec 1988). Reprint No. AMR046 \$9.50
- Index to Volume 41 (1988).** Reprint No. AMR063 \$80 (members \$40)
- Assessment of shear deformation theories for multilayered composite plates.** AK Noor and WS Burton. AMR 42(1) 1-13 (Jan 1989). Reprint No. AMR047 \$11
- Chaotic dynamics and the Newtonian legacy.** JMT Thompson. AMR 42(1) 15-25 (Jan 1989). Reprint No. AMR048 \$9.50
- Optimal structural design in the USSR.** MI Reitman. AMR 42(2) 27-37 (Feb 1989). Reprint No. AMR049 \$9.50
- Methods of random vibration for inelastic structures.** YK Wen. AMR 42(2) 39-52 (Feb 1989). Reprint No. AMR050 \$11
- Ceramics for transportation engines - siren or solution.** PS Myers. AMR 42(3) 53-69 (Mar 1989). Reprint No. AMR051 \$12.50
- A concept review of low-heat-rejection engines.** JE Smith and R Churchill. AMR 42(3) 71-90 (Mar 1989). Reprint No. AMR052 \$12.50
- Recent studies on the dynamic plastic behavior of structures.** N Jones. AMR 42(4) 95-115 (Apr 1989). Reprint No. AMR053 \$14
- Optimization in the design and control of robotic manipulators.** SS Rao and PK Bhatti. AMR 42(4) 117-127 (Apr 1989). Reprint No. AMR054 \$11
- Mechanics and finite elements of shells.** G Wempner. AMR 42(5) 129-142 (May 1989). Reprint No. AMR055 \$11
- Elastic and acoustic resonance wave scattering.** GC Gaunard. AMR 42(6) 143-192 (Jun 1989). Reprint No. AMR056 \$24.50
- Micromechanical analysis of composites by the method of cells.** J Aboudi. AMR 42(7) 193-221 (Jul 89). Reprint No. AMR057 \$17
- Optimal topologies of structures.** U Kirsch. AMR 42(8) 223-239 (Aug 1989). Reprint No. AMR058 \$12.50
- Radiative transfer in dispersed media.** R Viskanta and MP Mengüç. AMR 42(9) 241-259 (Sep 1989). Reprint No. AMR059 \$12.50
- Flow control.** M Gad-el-Hak. AMR 42(10) 261-293 (Oct 1989). Reprint No. AMR060 \$18.50
- Recent developments concerning Saint-Venant's principle.** CO Horgan. AMR 42(11) Part 1, 295-304 (Nov 1989). Reprint No. AMR061 \$9.50
- Causal theories of evolution and wave propagation in mathematical physics.** M Kransy. AMR 42(11) Part 1, 305-322 (Nov 1989). Reprint No. AMR062 \$12.50
- Mechanics Pan-America 1989 (Selected and extended papers from PACAM I, Rio, Jan 1989).** CR Steele, AW Leissa, MRM Crespo da Silva (eds).

- AMR 42(11) Part 2 (Nov 1989) Reprint No 800148 (soft, \$40), 800059 (hard, \$80)
- Numerical algorithms for viscous flows with moving boundaries.** JM Floryan and H Rasmussen. AMR 42(12) 323-341 (Dec 1989) Reprint No AMR064 \$12.50
- Index to Volume 42 (1989).** Reprint No AMR065 \$80 (members \$40)
- Recent progress of Japanese research on condensation heat transfer.** I Tanasawa. AMR 43(1) 1-11 (Jan 1990) Reprint No AMR066 \$9.50
- On the dynamics of cracked rotors: A literature survey.** J Wauer. AMR 43(1) 13-18 (Jan 1990) Reprint No AMR067 \$8
- Theoretical study of crack-tip singularity fields in China.** KC Hwang. AMR 43(2) 19-33 (Feb 1990) Reprint No AMR068 \$11
- Progress in gas-side fouling of heat-transfer surfaces.** WJ Marner. AMR 43(3) 35-66 (Mar 1990) Reprint No AMR069 \$17
- Assessment of computational models for multilayered composite shells.** AK Noor and WS Burton. AMR 43(4) 67-97 (Apr 1990) Reprint No AMR070 \$17
- Modelling, control, and design of flexible structures.** SS Rao, TS Pan, VB Venkayya. AMR 43(5) 1, 99-117 (May 1990) Reprint No AMR072 \$12.50
- Mechanics USA 1990 (Proc USNCAM-11, Tucson, May 1990).** CF Cen (ed). AMR 43(5) Part 2 (May 1990) Reprint No 80013X \$88
- Engineering analysis via symbolic computation.** AI Beltzer. AMR 43(6) 119-127 (Jun 1990) Reprint No AMR071 \$9.50
- Elastoviscoplastic models with relaxed configurations and internal state variables.** S Cleja-Tigoiu and E Soós. AMR 43(7) 131-151 (Jul 1990) Reprint No AMR073 \$14
- Some unanswered questions in fluid mechanics.** L Trefethen, R Panton. AMR 43(8) 153-170 (Aug 1990) Reprint No AMR076 \$12.50
- Acoustic resonance scattering by submerged elastic shells.** GC Gaunaurd and MF Werby. AMR 43(8) 171-208 (Aug 1990) Reprint No AMR075 \$20
- Lift force of delta wings.** M Lee and C-M Ho. AMR 43(9) 209-221 (Sep 1990) Reprint No AMR077 \$11
- Bibliography of books and surveys on shells.** AK Noor. AMR 43(9) 223-234 (Sep 1990) Reprint No AMR078 \$14
- Application of the singularity expansion method to elastic wave scattering.** H Uberall, P Delsanto, J Alemar, E Rosario, and A Nagl. AMR 43(10) 235-250 (Oct 1990) Reprint No AMR074 \$16
- Predicting the autonomous behaviour of simple nonlinear feedback systems.** DP Atherton. AMR 43(10) 251-260 (Oct 1990) Reprint No AMR081 \$14
- Storage tanks under earthquake loading.** FG Rammerstorfer, K Scharf, and FD Fischer. AMR 43(11) 261-282 (Nov 1990) Reprint No AMR080 \$20
- Recent topics in constitutive modeling of cyclic plasticity and viscoplasticity.** N Ohno. AMR 43(11) 283-295 (Nov 1990) Reprint No AMR082 \$16
- Vortices in motionless media.** AT Winfree. AMR 43(12) 297-309 (Dec 1990) Reprint No AMR083 \$16
- Index to Volume 43 (1990).** Reprint No AMR085 \$88 (members \$44)
- Rough-wall turbulent boundary layers.** MR Raupach, RA Antonia, and S Rajagopalan. AMR 44(1) 1-25 (Jan 1991) Reprint No AMR084 \$22
- Effect of loading sequence on the fatigue life of notched specimens made from steel and aluminum alloys.** O Buxbaum, H Klitschke, H Oppermann. AMR 44(1) 27-35 (Jan 1991) Reprint No AMR086 \$14
- Random heterogeneous media: Microstructure and improved bounds on effective properties.** S Torquato. AMR 44(2) 37-76 (Feb 1991) Reprint No AMR087 \$28
- Influence of stress state on the failure behavior of cracked components made of steel.** H Clausmeyer, K Kussmaul, and E Roos. AMR 44(2) 77-92 (Feb 1991) Reprint No AMR090 \$16
- Heat transfer in superconducting films.** MI Flik. AMR 44(3) 93-108 (Mar 1991) Reprint No AMR092 \$16
- Multibody dynamics -- modeling and analysis methods.** RL Huston. AMR 44(3) 109-117 (Mar 1991) Reprint No AMR089 \$14
- On the structure of mixing layers and jets.** FO Thomas. AMR 44(3) 119-153 (Mar 1991) Reprint No AMR088 \$26
- Impact on laminated composite materials.** S Abrate. AMR 44(4) 155-190 (Apr 1991) Reprint No AMR091 \$26
- Simulation of stochastic processes by spectral representation.** M Shinozuka and G Deodatis. AMR 44(4) 191-204 (Apr 1991) Reprint No AMR094 \$16
- Generalized Galerkin methods for convection dominated transport phenomena.** J Donea. AMR 44(5) 205-214 (May 1991) Reprint No AMR093 \$14
- Traveling deformation waves: A tutorial review (translation).** AI Dobrolyubov. AMR 44(5) 215-254 (May 1991) Reprint No AMR079 \$28
- Circular cylinder wake configurations: A flow visualization survey.** M Coutanceau and JR Defaye. AMR 44(6) 255-305 (Jun 1991) Reprint No AMR095 \$34
- Bibliography of books and monographs on finite element technology.** AK Noor. AMR 44(6) 307-316 (Jun 1991) Reprint No AMR098 \$14
- Nonlinear dynamic response of membranes.** CH Jenkins and JW Leonard. AMR 44(7) 319-328 (Jul 1991) Reprint No AMR097 \$14
- Topology of flow separation on 3D bodies.** GT Chapman and LA Yates. AMR 44(7) 329-345 (Jul 1991) Reprint No AMR096 \$18
- Review of thermal stresses.** Special collection edited by RB Hetnarski. AMR 44(8-9) 347-397 (Aug-Sep 1991) Reprint No AMR099 \$36: (i) **Thermally induced flexure, buckling, and vibration of plates.** TR Tauchert. (ii) **Thermomechanical coupling in inelastic solids.** DH Allen. (iii) **Domain of influence results in generalized thermoelasticity.** J Ignaczak. (iv) **Thermal stresses in materials with temperature-dependent properties.** N Noda.
- Random vibrations and fracture mechanics.** Special issue edited by I Elishakoff. AMR 44(10) 399-461. Reprint No AMR100 \$46: (i) **Linearization in analysis of nonlinear stochastic systems.** L Socha and TT Soong. (ii) **Nonlinear random vibration: Experimental results.** RA Ibrahim. (iii) **Application of FEM to linear elastic fracture mechanics.** L Banks-Sills.
- Biomimetics: Advancing man-made materials through guidance from nature.** AV Srinivasan, GK Haritos, and FL Hedberg. AMR 44(11) Part 1, 463-482 (Nov 1991) Reprint No AMR101 \$18
- Mechanics Pan-America 1991 (Selected and extended papers from PACAM II, Valparaiso, Chile, Jan 1991).** PA Kitl and DT Mook (eds). AMR 44(11) Part 2 (Nov 1991) Reprint No AMR106 \$88 (members \$44)
- Structural and dynamic behavior of pretwisted rods and beams.** A Rosen. AMR 44(12) Part 1, 483-516 (Dec 1991) Reprint No AMR102 \$26
- Hydroacoustics of transitional boundary-layer flow.** GC Lauchle. AMR 44(12) Part 1, 517-531 (Dec 1991) Reprint No AMR103 \$16
- Index to Volume 44 (1991).** Reprint No AMR108 \$88 (members \$44)
- Stress minimum forms for elastic solids.** LT Wheeler. AMR 45(1), 1-12 (Jan 1992) Reprint No AMR 107 \$14
- Micromechanics of composite materials.** Special collection edited by AN Guz. AMR 45(2) 13-101 (Feb 1992) Reprint No AMR104 \$54: (1) **Statics of laminated and fibrous composites with bent structures.** SD Akbarov and AN Guz. (2) **Dynamics of laminated and fibrous composites.** AN Guz and NA Shulga. (3) **Stability of fibrous composites.** IY Babich and AN Guz. (4) **Stability of laminated composites.** AN Guz and VN Chekhov.
- Microbubble drag reduction in liquid turbulent boundary layers.** C Merkle and S Deutsch. AMR 45(3) Part 1, 103-127 (Mar 1992) Reprint No AMR105 \$22
- Material Instabilities (22nd Midwestern Mechanics Conference, Rolla MO, Oct 1991)** HM Zbib, TG Shawki, RC Batra (eds). AMR 45(3) Part 2 (Mar 1992) Reprint No AMR110 \$66 (members \$33)
- Heat-transfer control: Principal focus on Japanese Research.** T Aihara. AMR 45(4) 129-153 (Apr 1992) Reprint No AMR109 \$16
- Optimum dimensions of extended surfaces operating in a convective environment.** A Aziz. AMR 45(5) 155-173 (May 1992) Reprint No AMR111 \$18
- Overview of micro heat pipe research and development.** GP Peterson. AMR 45(5) 175-189 (May 1992) Reprint No AMR112 \$16
- Multiphase poroelastic finite element models for soft tissue structures.** BR Simon. AMR 45(6) 191-218 (Jun 1992) Reprint No AMR114 \$22
- Dynamics and control of coherent structures in turbulent jets.** RR Mankbadi. AMR 45(6) 219-248 (Jun 1992) Reprint No AMR113 \$24
- Addendum to: Bibliography of monographs and surveys on shells.** W Pietraszkiewicz. AMR 45(6) 249-250 (Jun 1992) Reprint No AMR115 (free with AMR078 \$14)
- Romanian sources on applied mechanics.** ME Popescu. AMR 45(6) 251-252 (Jun 1992) Reprint No AMR116 no charge.
- Fluorescence thermometry.** LJ Dowell. AMR 45(7) 253-260 (Jul 1992) Reprint No AMR117 \$12.00
- Micromechanical modelling of quasi-brittle materials behavior.** VC Li (ed), 10 articles. AMR 45(8) 261-398 (Aug 1992) Reprint No AMR118 \$60.
- Recent developments in the force method of structural analysis.** A Kaveh. AMR 45(9) 401-418 (Sep 1992) Reprint No AMR119 \$18.
- Computational models for high-temperature multi-layered composite plates and shells.** AK Noor and WS Burton. AMR 45(10) 419-446 (Oct 1992) Reprint No AMR120 \$22.
- Dynamics of periodic and near-periodic structures.** Dong Li and H Benaroya. AMR 45(11) 447-460 (Nov 1992) Reprint No AMR121 \$16.
- Finite element analysis of aeroelasticity of plates and shells.** MN Bismarck-Nasr. AMR 45(12) 461-482 (Dec 1992) Reprint No AMR122 \$20.
- Index to Volume 45 (1992).** Reprint No AMR123 \$88 (members \$44)
- Mathematical modeling of transport phenomena during alloy solidification.** C Beckermann and R Viskanta. AMR 46(1) 1-28 (Jan 1993) Reprint No AMR124 \$22.
- Perturbation techniques in phase change heat transfer.** A Aziz and VJ Lunardini. AMR 46(2) (Feb 1993) Reprint No AMR125 \$28.
- US machining and grinding research in the 20th century.** R Komanduri, ME Merchant, MC Shaw. AMR 46(3) (Mar 1993) Reprint No AMR126 \$42
- Nondestructive testing and structural condition monitoring of mechanical cables.** PAA Laura. AMR 46(4) 133-138 (Apr 1993) Reprint No AMR127 \$12.
- Aging of energy production and distribution systems: DOE Workshop, Rice University, Houston TX, October 11-13, 1992.** Edited by MM Carroll

- and PD Spanos. AMR 46(5) 139-263 (May 1993) Reprint No AMR128 \$78.
- Applied mechanics of a lunar base.** Edited by H Benaroya. AMR 46(6) 265-358 (Jun 1993) Reprint No AMR129 \$65.
- Chaos and noise in dynamical systems.** Edited by T Kapitaniak and J Brindley. AMR 46(7) 359-444 (Jul 1993) Reprint No AMR130 \$59.
- Boundary integral equations in aerodynamics.** L Morino. AMR 46(8) 445-466 (Aug 1993) Reprint No AMR131 \$20.
- Vibrations of planar curved beams, rings, and arches.** P Chidambaram and AW Leissa. AMR 46(9) 467-483 (Sep 1993) Reprint No AMR132 \$20.
- Thermal buckling of plates and shells.** ER Thornton. AMR 46(10) 485-506 (Oct 1993) Reprint No AMR133 \$20.
- Mechanics Pan-America 1993 (Selected and extended papers from PACAM III, São Paulo, Brazil, Jan 1993).** MRM Crespo da Silva and CEN Mazzilli (eds). AMR 46(11) Part 2 (Nov 1993) Reprint No AMR134 \$88.
- Nonlinear waves in solids: IUTAM Symposium, University of Victoria, Victoria, BC Canada, August 15-20, 1993.** JL Wegner and FR Norwood. AMR 46(12) Part 1, 507-562 (Dec 1993) Reprint No AMR135 \$34.
- Index to Volume 46 (1993).** Reprint No AMR136 \$88.
- Bifurcation and stability in dissipative media (plasticity, friction, fracture).** Quoc Son Nguyen. AMR 47(1) Part 1, 1-31 (Jan 1994) Reprint No AMR138 \$26.
- Micromechanics of random media. MEET'N'93 - First Joint ASCE-ASME-SES Meeting Symposium.** Edited by M Ostojia-Starzewski and I Jasiuk. AMR 47(1) Part 2, 1-240 (Jan 1994) Reprint No AMR139 \$170.
- Mechanics of contact impact.** Edited by M Okrouhlik. AMR 47(2) 33-99 (Feb 1994) Reprint No AMR140 \$44.
- Solid layer thermal-conductivity measurement techniques.** KE Goodson and MI Flik. AMR 47(3) 101-112 (Mar 1994) Reprint No AMR141 \$14.
- Piezoelectricity and its use in disturbance sensing and control of flexible structures: A survey.** SS Rao and M Sunar. AMR 47(4) 113-123 (Apr 1994) Reprint No AMR142 \$14.
- Recent advances and applications of reduction methods.** Ahmed K Noor. AMR 47(5) 125-146 (May 1994) Reprint No AMR143 \$20.
- Theories and computational models for composite laminates.** JN Reddy and DH Robbins Jr. AMR 47(6) Part 1, 147-169 (Jun 1994) Reprint No AMR144 \$20.
- Simulations of plastic instabilities in solid mechanics.** Yoshihiro Tomita. AMR 47(6) Part 1, 171-205 (Jun 1994) Reprint No AMR145 \$26.
- Mechanics USA 1994 (Proc USNCAM-12, Seattle, June 1994).** AS Kobayashi (ed). AMR 47(6) Part 2 (Jun 1994) Reprint No AMR146 \$88.
- Friction-induced vibration.** Special issue edited by RA Ibrahim and E Rivin. AMR 47(7), 207-305 (Jul 1994) Reprint No AMR147 \$65.
- Reynolds number effects in wall-bounded turbulent flows.** M Gad-el-Hak and PR Bandyopadhyay. AMR 47(8), 307-365 (Aug 1994) Reprint No AMR148 \$38.
- Heat and fluid flow inside rotating channels.** W-J Yang, S Fann, and JH Kim. AMR 47(8), 367-396 (Aug 1994) Reprint No AMR149 \$22.
- Review of microscale heat transfer.** AB Duncan and GP Peterson. AMR 47(9), 397-428 (Sept 1994) Reprint No AMR150 \$24.
- Internal variable formulations of problems in elastoplasticity: Constitutive and algorithmic aspects.** BD Reddy and JB Martin. AMR 47(9), 429-456 (Sept 1994) Reprint No AMR151 \$22.
- Regularization techniques applied to boundary element methods.** M Tanaka, V Sladek, and J Sladek. AMR 47(10), 457-499 (Oct 1994) Reprint No AMR153 \$30.
- Review of three dimensional dynamic analyses of circular cylinders and cylindrical shells.** KP Soldatos. AMR 47(10), 501-516 (Oct 1994) Reprint No AMR153 \$16.
- Impact on laminated composites: Recent advances.** S Abrate. AMR 47(11), 517-544 (Nov 1994) Reprint No AMR154 \$22.
- Theory of representations for tensor functions: A unified invariant approach to constitutive equations.** Q-S Zheng. AMR 47(11), 545-587 (Nov 1994) Reprint No AMR155 \$30.
- Solidification of pure liquids and liquid mixtures inside ducts and over external bodies.** Shoichiro Fukusako and Masahiko Yamada. AMR 47(12) Part 1, 589-621 (Dec 1994) Reprint No AMR156 \$26.
- Index to Volume 47 (1994).** Reprint No AMR157 \$96.
- Ray method for solving dynamic problems connected with propagation of wave surfaces of strong and weak discontinuities.** YA Rossikhin and MV Shitikova. AMR 48(1), 1-39 (Jan 1995) Reprint No AMR158 \$30.
- Layout optimization of structures.** GIN Rozvany, MP Bendsoe, and U Kirsch. AMR 48(2), 41-120 (Feb 1995) Reprint No AMR159 \$48.
- Numerical simulation of coherent vortices in turbulence.** M Lesieur, P Comte, and O Métais. AMR 48(3) 121-149 (Mar 1995) Reprint No AMR160 \$24.
- R-functions in boundary value problems in mechanics.** VL Rvachev and TI Sheiko. AMR 48(4) 151-188 (Apr 1995) Reprint No AMR161 \$28.
- Review of recent advances in the study of unsteady turbulent internal flows.** GJ Brereton and RR Mankbadi. AMR 48(4) 189-212 (Apr 1995) Reprint No AMR162 \$20.
- Material forces: Concepts and applications.** GA Maugin. AMR 48(5) 213-245 (May 1995) Reprint No AMR163 \$26.
- Anisotropic symmetries of linear elasticity.** SC Cowin and MM Mehrabadi. AMR 48(5) 247-285 (May 1995) Reprint No AMR164 \$28.
- Some basic thermoelastic problems for nonhomogeneous structural materials.** Y Tanigawa. AMR 48(6) 287-300 (June 1995) Reprint No AMR165 \$16.
- Dynamic processes in structural thermo-viscoplasticity.** H Irschik and F Ziegler. AMR 48(6) 301-316 (June 1995) Reprint No AMR166 \$18.
- Transient heat transfer in extended surfaces.** A Aziz and AD Kraus. AMR 48(7) 317-350 (July 1995) Reprint No AMR167 \$26.
- Bibliography on skin friction reduction with polymers and other boundary-layer additives.** RH Nadolink and WW Haigh. AMR 48(7) 351-460 (July 1995) Reprint No AMR168 \$62.
- Simple models of human movement.** R McN Alexander. AMR 48(8) 461-470 (Aug 1995) Reprint No AMR169 \$14.
- Cavitation in nonlinearly elastic solids: A review.** CO Horgan and DA Polignone. AMR 48(8) 471-485 (Aug 1995) Reprint No AMR170 \$16.
- Biomechanics of growth, remodeling, and morphogenesis.** LA Taber. AMR 48(8) 487-545 (Aug 1995) Reprint No AMR171 \$38.
- Sediment transport mechanisms in coastal environments and rivers.** Special Issue edited by RD Rajaona. AMR 48(9) 547-609 (Sept 1995) Reprint No AMR172 \$40.
- Mechanics of swelling.** Special Issue edited by TK Karalis. AMR 48(10) 611-732 (Oct 1995) Reprint No AMR173 \$68.
- Synchronization and chaotization in interacting dynamical systems. II** Blekhan, PS Landa, and MG Rosenblum. AMR 48(11) Part 1, 733-752 (Nov 1995) Reprint No AMR174 \$18.
- Cosserat plasticity and plastic spin.** H Lippmann. AMR 48(11) Part 1, 753-762 (Nov 1995) Reprint No AMR175 \$14.
- Interfacial instabilities in stratified shear flows involving multiple viscous and viscoelastic fluids.** Kang Ping Chen. AMR 48(11) Part 1, 763-777, (Nov 1995) Reprint No AMR176 \$16.
- Mechanics Pan-America 1995 (Selected and extended papers from PACAM IV, Buenos Aires, Argentina, Jan 1995).** LA Godoy, SR Idelsohn, PAA Laura, and DT Mook (eds). AMR 48(11) Part 2 (Nov 1995) Reprint No AMR177 \$96.
- Nonlinear Boltzmann equation solutions and applications to fluid dynamics.** N Bellomo, P LeTallec, and B Perthame. AMR 48(12) Part 1, 777-794, (Dec 1995) Reprint No AMR178 \$20.
- Removal, suppression, and control of chaos by nonlinear design.** JF Lindner and WL Ditto. AMR 48(12) Part 1, 795-808, (Dec 1995) Reprint No AMR179 \$16.
- Random vibration of structures: A personal perspective.** I Elishakoff. AMR 48(12) Part 1, 809-825, (Dec 1995) Reprint No AMR180 \$18.
- Index to Volume 48 (1995).** AMR 48(12) Part 2 (Dec 1995) Reprint No AMR181 \$96.
- Differential quadrature method in computational mechanics: A review.** CW Bert and M Malik. AMR 49(1), 1-28, (Jan 1996) Reprint No AMR182 \$22.
- Simulation of multi-dimensional Gaussian stochastic fields by spectral representation.** M Shinozuka and G Deodatis. AMR 49(1), 29-53, (Jan 1996) Reprint No AMR183 \$22.
- Localization and effects of irregularities in structures.** Special Issue edited by H Benaroya. AMR 49(2) 55-135 (Feb 1996) Reprint No AMR184 \$50.
- Nonlinear oscillations of a gas in a tube.** MA Ilgamov, RG Zaripov, RG Galiullin, and VB Repin. AMR 49(3) 137-154 (Mar 1996) Reprint No AMR185 \$18.
- Computational models for sandwich panels and shells.** AK Noor, WS Burton, and CW Bert. AMR 49(3) 155-199 (Mar 1996) Reprint No AMR186 \$32.
- Highlights in the historical development of the porous media theory: Toward a consistent macroscopic theory.** R de Boer. AMR 49(4) 201-262 (Apr 1996) Reprint No AMR187 \$40.
- Buckling of thin shells: Recent advances and trends.** JG Teng. AMR 49(4) 263-274 (Apr 1996) Reprint No AMR188 \$14.
- Contact mechanics of rough surfaces in tribology: Single asperity contact.** B Bhushan. AMR 49(5) 275-298 (May 1996) Reprint No AMR189 \$20.
- Turbulence in the ocean, atmosphere, galaxy, and universe.** CH Gibson. AMR 49(5) 299-315 (May 1996) Reprint No AMR190 \$20.
- Transformation-induced plasticity (TRIP).** FD Fischer, Q-P Sun, and K Tanaka. AMR 49(6) 317-364 (June 1996) Reprint No AMR191 \$32.
- Modern developments in flow control.** M Gad-el-Hak. AMR 49(7) 365-379 (July 1996) Reprint No AMR192 \$16.
- Natural mode method: A practicable and novel approach to the global analysis of laminated composite plates and shells.** J Argyris and L Tenek. AMR 49(7) 381-399 (July 1996) Reprint No AMR193 \$18.
- Main Polish historical and modern sources on applied mechanics.** JJ Telega and R Wojnar. AMR 49(8) 401-432 (August 1996) Reprint No AMR 194 \$24.
- Optimal structural design under creep conditions.** M Zyczkowski. AMR 49(9) 433-446 (Sept 1996) Reprint No AMR195 \$16.
- Wall/vortex-ring interactions.** R Verzicco and P Orlandi. AMR 49(10, Pt 1) 447-461 (Oct 1996) Reprint No AMR196 \$16.

- UPDATE 1996.** Edited by AW Leissa. AMR 49(10, Pt 2) S1-S202 (Oct 1996) Reprint No AMR197 \$99.
- Bearing capacity of floating ice covers subjected to static and oscillatory loads.** AD Kerr. AMR 49(11) 463-475 (Nov 1996) Reprint No AMR198 \$16.
- Recent developments in modeling of liquid phase electroepitaxy: A continuum approach.** S Dost. AMR 49(12 Pt1) 477-495 (Dec 1996) Reprint No AMR199 \$18
- Index to Volume 49 (1996).** AMR 49(12 Pt 2) (Dec 1996) Reprint No AMR200 \$96
- Mechanical models of helical strands.** A Cardou and C Jolicoeur. AMR 50(1) 1-14 (Jan 1997) Reprint No AMR201 \$14.
- Applications of fractional calculus to dynamic problems of linear and nonlinear hereditary mechanics of solids.** YA Rossikhin and MV Shitkova. AMR 50(1) 15-67 (Jan 1997) Reprint No AMR202 \$42.
- Localized impact on sandwich structures with laminated facing.** S Abrate. AMR 50(2) 69-82 (Feb 1997) Reprint No AMR203 \$16.
- Boundary element formulations in fracture mechanics.** MH Aliabadi. AMR 50(2) 83-96 (Feb 1997) Reprint No AMR204 \$16.
- Mechanical separation process and flow patterns of cyclone dust collectors.** A Ogawa. AMR 50(3) 97-130 (Mar 1997) Reprint No AMR205 \$26.
- Transient resonance scattering and target identification.** GC Gaunaurd and HC Strifors. AMR 50(3) 131-148 (Mar 1997) Reprint No AMR206 \$18.
- Boundary element methods in dynamic analysis: Part II (1986-1996).** DE Beskos. AMR 50(3) 149-197 (Mar 1997) Reprint No AMR207 \$34.
- Stress resultant geometrically exact shell theory for finite rotations and its finite element implementation.** A Ibrahimbegović. AMR 50(4) 199-226 (Apr 1997) Reprint No AMR208 \$22.
- Temperature- and pressure-sensitive luminous paints in aerodynamics.** T Liu, BT Campbell, SP Burns, and JP Sullivan. AMR 50(4) 227-246 (Apr 1997) Reprint No AMR209 \$20.
- Guided waves in plates and their use in materials characterization.** DE Chimenti. AMR 50(5) 247-284 (May 1997) Reprint No AMR210 \$28.
- Recent advances in computational thermostructural analysis of composite plates and shells with strong nonlinearities.** J Argyris and L Tenek. AMR 50(5) 285-306 (May 1997) Reprint No AMR211 \$20.
- Designing against capsizing in beam seas: Recent advances and new insights.** JMT Thompson. AMR 50(5) 307-325 (May 1997) Reprint No AMR212 \$20.
- Heat conduction in composites: Homogenization and macroscopic behavior.** P Furmanski. AMR 50(6) 327-356 (June 1997) Reprint No AMR213 \$24.
- Mathematical modeling of dusty-gas boundary layers.** AN Osipov. AMR 50(6) 357-370 (June 1997) Reprint No AMR214 \$16.
- Eigenmode analysis in unsteady aerodynamics: Reduced order models.** EH Dowell, KC Hall, MC Romanowski. AMR 50(6) 371-386 (June 1997) Reprint No AMR215 \$18.
- Wear of power plant components due to impact and sliding.** PL Ko. AMR 50(7) 387-411 (July 1997) Reprint No AMR216 \$22.
- Scaling laws for fully developed turbulent flows in pipes.** GI Barenblatt, AJ Chorin, VM Prostokishin. AMR 50(7) 413-429 (July 1997) Reprint No AMR 217 \$18.
- Vibration of shallow shells: A review with bibliography.** KM Liew, CW Lim, and S Kitipornchai. AMR 50(8) 431-444 (Aug 1997) Reprint No AMR218 \$16.
- Bayonet tube heat exchanger.** GSH Lock and H Minhas. AMR 50(8) 445-474 (Aug 1997) Reprint No AMR219 \$24.
- Special issue on thermal stresses.** Edited by RB Hetnarski. AMR 50(9) 475-551 (Sept 1997) Reprint No AMR220 \$48.
- Drained granular material under cyclic loading with temperature-induced soil/structure interaction.** GL England, CM Tsang, T Dunstan, and RG Wan. AMR 50(10) 553-579 (Oct 1997) Reprint No AMR221 \$22.
- Adaptive finite element methods: A review.** L-y Li and P Bettess. AMR 50(10) 581-591 (Oct 1997) Reprint No AMR222 \$14.
- Scaling of structural failure.** ZP Bazant and E-P Chen. AMR 50(10) 593-627 (Oct 1997) Reprint No AMR223 \$26.
- Review of mechanics of shape alloy structures.** V Birman. AMR 50(11, Pt 1) 629-645 (Nov 1997) Reprint No AMR224 \$18.
- Dynamic characteristics of magnetically-levitated vehicle systems.** Y Cai and SS Chen. AMR 50(11, Pt 1) 647-670 (Nov 1997) Reprint No AMR225 \$20.
- Interactions of space bodies with atmospheres of planets.** VP Stulov. AMR 50(11, Pt 1) 647-670 (Nov 1997) Reprint No AMR226 \$18.
- Mechanics Pan-America 1997 (Selected and extended papers from PACAM V, San Juan, Puerto Rico, Jan 1997).** LA Godoy, M Rysz, and LE Suarez (eds). AMR 50(11, Pt 2) S1-S244 (Nov 1997) Reprint No AMR227 \$99.
- Zero-pressure-gradient turbulent boundary layer.** WK George and L Castillo. AMR 50(12, Pt 1) 689-729 (Dec 1997) Reprint No AMR228 \$30.
- Recent engineering applications in China on coupling boundary elements with finite elements.** X Lei and Q Du. AMR 50(12, Pt 1) 731-740 (Dec 1997) Reprint No AMR229 \$14.
- Strain rate effects in composites.** RL Sierakowski. AMR 50(12, Pt 1) 741-761 (Dec 1997) Reprint No AMR230 \$20.
- Index to Volume 50 (1997).** AMR 50(12, Pt 2) (Dec 1997) Reprint No AMR231 \$96
- Retrospectives - 1997.** Includes: *Boundary layer transition: The early days*, by HW Liepmann (Feb 1997); *Generation of surface waves by wind*, by J Miles (July 1997); and *Research as a life style*, by G Batchelor (Aug 1997) Reprint No AMR232 \$18
- Fluid mechanics problems in biotechnology.** Special Issue edited by R Pohorecki. AMR 51(1) 1-140 (Jan 1998) Reprint No AMR233 \$70.
- Applied mechanics in science and engineering.** Y-H Pao. AMR 51(2) 141-153 (Feb 1998) Reprint No AMR234 \$16.
- Review of eigensolution procedures for linear dynamic finite element analysis.** AF Bertolini. AMR 51(2) 155-172 (Feb 1998) Reprint No AMR235 \$18.
- Neural computing in mechanics.** P Zeng. AMR 51(2) 172-197 (Feb 1998) Reprint No AMR236 \$22.
- Main Ukrainian historical and modern sources on mechanics: Focus on the SP Timoshenko Institute of Mechanics.** AN Guz' and JJ Rushchitsky. AMR 51(3) 199-208 (Mar 1998) Reprint No AMR237 \$14.
- Three versions of the finite element method based on concepts of either stochasticity, fuzziness, or anti-optimization.** I Elishakoff. AMR 51(3) 209-218 (Mar 1998) Reprint No AMR238 \$14.
- Monte Carlo treatment of random fields: A broad perspective.** PD Spanos and BA Zeldin. AMR 51(3) 219-237 (Mar 1998) Reprint No AMR239 \$20.
- Panoramic overview of the principles and equations of motion of advanced engineering dynamics.** JG Papastavridis. AMR 51(4) 239-265 (Apr 1998) Reprint No AMR240 \$22.
- Advances in the fundamental aspects of turbulence: Energy transfer, interacting scales, and self-preservation in isotropic decay.** Y Zhou and CG Speziale. AMR 51(4) 267-301 (Apr 1998) Reprint No AMR241 \$26.
- Finite element analysis of hyperelastic components.** DW Nicholson, NW Nelson, B Lin, and A Farinella. AMR 51(5) 303-320 (May 1998) Reprint No AMR242 \$18.
- A historical review on dry friction and stick-slip phenomena.** B Feeny, A Guran, N Hinrichs, and K Popp. AMR 51(5) 321-341 (May 1998) Reprint No AMR244 \$20.
- Contact problems for elastic bodies with initial stresses: Focus on Ukrainian research.** AN Guz', SY Babich, and VB Rudnitsky. AMR 51(5) 343-371 (May 1998) Reprint No AMR245 \$24.
- Damage analysis in fiber composite sheets and uncoated woven fabrics.** JN Rossetos and TA Godfrey. AMR 51(6) 373-385 (June 1998) Reprint No AMR246 \$16.
- Videogrammetric methods in velocimetry.** Th Dracos and A Gruen. AMR 51(6) 387-413 (June 1998) Reprint No AMR247 \$22.
- Nonholonomic systems revisited within the framework of analytical mechanics.** S Ostrovskaya and J Angeles. AMR 51(7) 415-433 (July 1998) Reprint No AMR248 \$20.
- Optimization and experiments: A survey.** RT Haftka, EP Scott, and JR Cruz. AMR 51(7) 435-448 (July 1998) Reprint No AMR249 \$16.
- Methods of isolation of modal resonances.** N Veksler, J-L Izicki, J-M Conoir, and P Rembert. AMR 51(7) 449-474 (July 1998) Reprint No AMR250 \$20.
- Nonlinear waves in nonlocal media.** J Engelbrecht and M Braun. AMR 51(8) 475-488 (Aug 1998) Reprint No AMR251 \$16.
- A review of material frame-indifference in mechanics.** CG Speziale. AMR 51(8) 489-504 (Aug 1998) Reprint No AMR252 \$16.
- Intelligent material systems: Application of functional materials.** J Tani, T Takaga, and J Qiu. AMR 51(8) 505-521 (Aug 1998) Reprint No AMR253 \$18.
- Asymptotic theory of global separation.** SI Chernyshenko. AMR 51(9) 523-536 (Sept 1998) Reprint No AMR254 \$16.
- Real porous media: Local geometry and macroscopic properties.** PM Adler and J-F Thovert. AMR 51(9) 537-585 (Sept 1998) Reprint No AMR255 \$34.
- Finite element bibliography for biomechanics (1987-1997).** J Mackerle. AMR 51(10) 589-634 (Oct 1998) Reprint No AMR256 \$34.
- Energy absorption capability and crashworthiness of composite material structures: A review.** JJ Carruthers, AP Kettle, and AM Robinson. AMR 51(10) 635-649 (Oct 1998) Reprint No AMR257 \$16.
- Developments in the mechanics of reinforced soil: Empirical background and analytical approaches.** A Sawicki. AMR 51(11) 651-668 (Nov 1998) Reprint No AMR258 \$18.
- Symmetric Galerkin boundary element methods.** M Bonnet, G Maier, C Polizzotto. AMR 51(11) 669-704 (Nov 1998) Reprint No AMR259 \$26.
- Hyperbolic thermoelasticity: A review of recent literature.** DS Chandrasekharaiah. AMR 51(12) 705-730 (Dec 1998) Reprint No AMR260 \$22.
- Static analysis of shells with developable middle surfaces.** SN Krivoshapko. AMR 51(12) 731-746 (Dec 1998) Reprint No AMR261 \$26.
- Index to Volume 51 (1998).** AMR 51(12, Pt 2) (Dec 1998) Reprint No AMR262 \$96.
- Retrospectives - 1998.** Includes: *An Editor looks back*, by S Juhasz (Jan

- 1998); *Science between the worlds: A retrospective*, by H Lippmann (April 1998); *Experiments and constitutive equations*, by SR Bodner (June 1998); and *The plate and shell vibration monographs*, by AW Leissa (Oct 1998) Reprint No AMR243 \$22.
- Recent advances in sensing and control of flexible structures via piezoelectric materials technology.** M Sunar and SS Rao. AMR 52(1) 1-16 (Jan 1999) Reprint No AMR264 \$16.
- Review of dual boundary element methods with emphasis on hypersingular integrals and divergent series.** JT Chen and H-K Hong. AMR 52(1) 17-33 (Jan 1999) Reprint No AMR265 \$18.
- Interaction of waves in solid mixtures.** J Rushchitsky. AMR 52(2) 35-74 (Feb 1999) Reprint No AMR266 \$28.
- Residual stress measurement by successive extension of a slot: The crack compliance method.** MB Prime. AMR 52(2) 75-96 (Feb 1999) Reprint No AMR267 \$20.
- A review of solution methods for determining effectiveness-NTU relationships for heat exchangers with complex flow arrangements.** DP Sekulic, RK Shah, and Pignotti. AMR 52(3) 97-117 (Mar 1999) Reprint No AMR268 \$20.
- Multidimensional modeling of impinging sprays on the wall in diesel engines.** J Senda and HG Fujimoto. AMR 52(4) 119-138 (Apr 1999) Reprint No AMR269 \$20.
- Optimization of structures in unilateral contact.** D Hilding, A Klarbring, and A J Petersson. AMR 52(4) 139-160 (Apr 1999) Reprint No AMR270 \$20.
- Geometry and strength of general helicoidal shells.** SN Krivoschapko. AMR 52(5) 161-175 (May 1999) Reprint No AMR271 \$16.
- Progress in structural dynamics with stochastic parameter variations: 1987-1998.** CS Manohar and RA Ibrahim. AMR 52(5) 177-197 (May 1999) Reprint No AMR272 \$20.
- Influence of loading rate on the interlaminar fracture properties of high performance composites - A review.** WJ Cantwell and M Blyton. AMR 52(6) 199-212 (June 1999) Reprint No AMR273 \$16.
- Dynamic analysis of plates by boundary elements.** CP Providakis and DE Besko. AMR 52(7) 213-236 (July 1999) Reprint No AMR274 \$20.
- Mechanics of cylindrical shells with non-circular cross-section - A survey.** KP Soldatos. AMR 52(8) 237-274 (August 1999) Reprint No AMR275 \$28.
- On the dynamics of elastic multibody systems.** H Bremer. AMR 52(9) 275-303 (Sept 1999) Reprint No AMR276 \$24.
- Mechanics and computational models for laminated piezoelectric beams, plates, and shells.** DA Saravanas and PR Heyliger. AMR 52(10) 305-320 (Oct 1999) Reprint No AMR277 \$16.
- Review of nonlinear panel flutter at supersonic and hypersonic speeds.** Chuh Mei, K Abdel-Motagaly, and R Chen. AMR 52(10) 321-332 (Oct 1999) Reprint No AMR 278 \$14.
- Exact representations on artificial interfaces and applications in mechanics.** D Givoli. AMR 52(11) 333-349 (Nov 1999) Reprint No AMR 279 \$18.
- Composite materials and structures: Science, technology and applications - A compendium of books, review papers, and other sources of information.** AE Bogdanovich and RL Sierakowski. AMR 52(12, Pt 1) 351-366 (Dec 1999) Reprint No AMR280 \$16.
- Retrospectives - 1999.** Includes: *Dynamic instabilities in mechanics of structures*, by VV Bolotin (Jan 1999); *Stability as the fundamental problem of control systems*, by M Mansour (March 1999); *On the importance of shell buckling experiments*, by J Singer (June 1999); and *Bouncing from one collision to the next*, by W Goldsmith (August 1999) Reprint No AMR263 \$32.
- Index to Volume 52 (1999).** AMR 52(12, Pt 2) (Dec 1999) Reprint No AMR281 \$96.
- Survey of stress analyses of the femoral hip prosthesis.** MG Joshi, MH Santare, and SG Advani. AMR 53(1) 1-18 (Jan 2000) Reprint No AMR283 \$18.
- Possible limitations of probabilistic methods in engineering.** I Elishakoff. AMR 53(2) 19-36 (Feb 2000) Reprint No AMR284 \$18.
- Application of weakly anisotropic models of a continuous medium for solving the problems of wave dynamics.** YA Rossikhin and MV Shitikova. AMR 53(3) 37-85 (March 2000) Reprint No AMR285 \$34.
- Higher-order theories of piezoelectric plates and application.** J Wang and J Yang. AMR 53(4) 87-99 (April 2000) Reprint AMR 286 \$16.
- On microtransport phenomena in minute droplets: A critical review.** O Aydin and W-J Wang. AMR 53(5) 101-116 (May 2000) Reprint AMR 287 \$16.
- A survey of macro-microcrack interaction problems.** V Petrova, V Tamuzs, and N Romalis. AMR 53(5) 117-146 (May 2000) Reprint AMR 288 \$24.
- Review of fracture and fatigue in ceramic matrix composites.** V Birman and LW Byrd. AMR 53(6) 147-174 (June 2000) Reprint AMR289 \$22.
- Fluid flow and heat transfer at micro- and meso-scales with application to heat exchanger design.** SS Mehendale, AM Jacobi, and RK Shah. AMR 53(7) 175-193 (July 2000) Reprint AMR290 \$18.
- Aeroacoustics of the vortex ring.** VF Kopiev. AMR 53(7) 195-205 (July 2000) Reprint AMR291 \$14.
- Smoke propagation in road tunnels.** F Chen. AMR 53(8) 207-218 (Aug 2000) Reprint AMR292 \$14.
- A survey of heat transfer in separated and reattached flows.** T Ota. AMR 53(8) 219-235 (Aug 2000) Reprint AMR293 \$18.
- Optimal protection from impact and shock: Theory and methods.** DV Balandin, NN Bolotnik, and WD Pilkey. AMR 53(9) 237-264 (Sept 2000) Reprint AMR294 \$22.
- Microplane constitutive model and metal plasticity.** M Brocca and ZP Bazant. AMR 53(10) 265-281 (Oct 2000) Reprint AMR 295 \$20.
- Nonholonomic mechanics.** F Mei. AMR 53(11) 283-305 (Nov 2000) Reprint AMR296 \$20.
- Analysis of viscous effects on cavitation.** E Amromin. AMR 53(11) 307-322 (Nov 2000) Reprint AMR297 \$16.
- Contemporary progress in porous media theory.** R de Boer. AMR 53(12) 323-370 (Dec 2000) Reprint AMR298 \$34.
- Retrospectives - 2000.** Includes: *1955-1980: A dynamic quarter century for applied mechanics*, by J Hult (Jan 2000); *A retrospective on dynamic plasticity and dynamic plastic instability*, by Ren Wang (Feb 2000); *Development of geophysical fluid dynamics: The influence of laboratory experiments*, by JS Turner (March 2000); *An experimental method for measuring stress intensity factor distributions in three-dimensional problems*, by CW Smith (April 2000); *Damping of viscoelastic layers*, by EE Ungar (June 2000); and *Adventures in applied mechanics*, by CW Bert (Oct 2000). Reprint No AMR282 \$32.
- Multiparticle effective field and related methods in micromechanics of composite materials.** VA Buryachenko. AMR 54(1) 1-47 (Jan 2001) Reprint AMR300 \$32.
- Continuum mesomechanical finite element modeling in materials development: A state-of-the-art review.** LL Mishnaevsky Jr and S Schmauder. AMR 54(1) 49-67 (Jan 2001) Reprint AMR301 \$20.
- New trends in asymptotic approaches: Summation and interpolation methods.** IV Andrianov and J Awrejcewicz. AMR 54(1) 69-92 (Jan 2001) Reprint AMR302 \$20.
- The role of friction in mechanical joints.** L Gaul and R Nitsche. AMR 54(2) 93-106 (March 2001) Reprint AMR303 \$16.
- Mathematical modelling of materials behavior under creep conditions.** J Betten. AMR 54(2) 107-132 (March 2001) Reprint AMR304 \$22.
- Recent advances in liquid sloshing dynamics.** RA Ibrahim, VN Pilipchuk, and T Ikeda. AMR 54(2) 133-199 (March 2001) Reprint AMR305 \$42.
- Sandwich structures.** JR Vinson. AMR 54(3) 201-214 (May 2001) Reprint AMR306 \$16.
- Asymptotic theories of large-scale motion, temperature, and moisture distribution in land-based polythermal ice sheets: A critical review and new developments.** DR Baral, K Hutter, and R Greve. AMR 54(3) 215-256 (May 2001) Reprint AMR307 \$30.
- Combustion limits.** Y Ju, K Maruta, and T Niioka. AMR 54(3) 257-277 (May 2001) Reprint AMR307 \$20.
- Fatigue damage modeling of fibre-reinforced composite materials: Review.** J Degrieck and W Van Paepegem. AMR 54(4) 279-300 (July 2001) Reprint AMR309 \$20.
- Developments, ideas, and evaluations based upon Reissner's Mixed Variational Theorem in the modeling of multilayered plates and shells.** E Carrera. AMR 54(4) 301-329 (July 2001) Reprint AMR310 \$24.
- Topology optimization of continuum structures: A review.** HA Eschenauer and N Olhoff. AMR 54(4) 331-390 (July 2001) Reprint AMR311 \$38.
- Hydrodynamics of diffusive processes.** KN Shukla. AMR 54(5) 391-404 (Sept 2001) Reprint AMR312 \$16.
- Moving boundaries in micro-scale biofluid dynamics.** W Shyy, M Francois, HS Udaykumar, N N'dri, and R Tran-Son-Tay. AMR 54(5) 405-453 (Sept 2001) Reprint AMR313 \$34.
- Fluid transients and fluid-structure interaction in flexible liquid-filled piping.** DC Wiggert and AS Tijsseling. AMR 54(5) 455-481 (Sept 2001) Reprint AMR314 \$22.
- Coupled deformation diffusion effects in the mechanics of faulting and failure of geomaterials.** JW Rudnicki. AMR 54(6) 483-502 (Nov 2001) Reprint AMR315 \$18.
- Review of inverse analysis for indirect measurement of impact force.** H Inoue, JJ Harrigan, and SR Reid. AMR 54(6) 503-524 (Nov 2001) Reprint AMR316 \$20.
- Historical survey of some mathematical aspects of Newtonian fluid flows.** RKh Zeytounian. AMR 54(6) 525-562 (Nov 2001) Reprint AMR317 \$28.
- Retrospectives - 2001.** Includes: *Photoelasticity, plasticity, and material behavior*, by DC Drucker (Jan 2001); *Conformal mapping, variational methods, and acoustic emission in mechanical cables*, by PAA Laura (Sept 2001); and *Early numerical computations in engineering*, by FI Nirdson (Nov 2001). Reprint No AMR299 \$18.

